SHARP

HEIMKINO MIT DVD
HOME CINEMA AVEC DVD
HOME CINEMA CON DVD
HEMBIOGRAF MED DVD
HOME CINEMA CON DVD
THUIS-BIOSCOOP MET DVD
CINEMA EM CASA COM DVD
HOME CINEMA WITH DVD

MODELL MODELLO
MODÈLE MODEL
MODELO MODELO
MODELL MODEL

HT-CN400DVH
HT-CN500DVH

BEDIENUNGSANLEITUNG
MODE D'EMPLOI
MANUAL DE MANEJO
BRUKSANVISNING
MANUALE DI ISTRUZIONI
GEBRUIKSAANWIJZING
MANUAL DE OPERAÇÃO
OPERATION MANUAL

DIGITAL dts SURROUND
DOLBY DIGITAL
DVD VIDEO
R·D·S
VIDEO CD
VIDEO CD
COMPACT disc SUPER VIDEO
SAVING ENERGY STAND-BY POWER CONSUMPTION 0.6W

DEUTSCH
Siehe Seiten i bis vi und D-1 bis D-52.

FRANÇAIS
Se reporter aux pages i à vi et F-1 à F-52.

ESPAÑOL
Consulte las páginas i a vi y S-1 a S-52.

SVENSKA
Hänvisa till sidorna i till vi och V-1 till V-52.

ITALIANO
Leggere le pagine i a vi e I-1 a I-52.

NEDERLANDS
Raadpleeg de bladzijden i t/m vi en N-1 t/m N-52.

PORTUGUÊS
Favor consultar as páginas i a vi e P-1 a P-52.

ENGLISH
Please refer to pages i to vi and E-1 to E-52.

HTCN400_500DVH(H) 92LCN400E0270

BESONDERE ANMERKUNGEN
REMARQUES SPÉCIALES
NOTAS ESPECIALES
SÄRSKILDA ANMÄRKNINGAR
NOTE PARTICOLARI
BIJZONDERE OPMERKINGEN
NOTAS ESPECIAIS
SPECIAL NOTES

- Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.
- Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.
- Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.
- Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.
- Quest'apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.
- **Dichiarazione di conformità**
  La società SHARP ELECTRONICS EUROPE GmbH dichiara che il prodotto SHARP HT-CN400DVH/HT-CN500DVH HOME CINEMA CON DVD è costruito in conformità alle prescrizioni del D.M.n°548 del 28/8/95, pubblicato sulla G.U.n°301 del 28/12/95 ed in particolare è conforme a quanto indicato nell'art. 2, comma 1 dello stesso decreto.
- Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.
- Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.
- This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.

- Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillaeg nr. 93/68/EEC.
- Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.
- Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.
- Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.
- Η εγκατάσταση αυτή ανταποκρίνεται στις απαιτήσεις των οδηγιών της Ευρωπαϊκής Ενωσης 89/336/ΕΟΚ και 73/23/ΕΟΚ, όπως οι κανονισμοί αυτοί συμπληρώθηκαν από την οδηγία 93/68/ΕΟΚ.

- Bei Einstellung der ON/STAND-BY-Taste auf STAND-BY ist die Netzspannung immer noch im Gerät vorhanden.
  Wenn die ON/STAND-BY-Taste auf STAND-BY eingestellt wird, kann das Gerät unter Verwendung der Fernbedienung in Betrieb gesetzt werden.

  Warnung:
  In diesem Gerät sind keine vom Benutzer wartbaren Teile vorhanden. Niemals Abdeckungen entfernen, außer wenn Sie dafür qualifiziert sind. In diesem Gerät sind gefährliche Spannungen vorhanden. Vor Ausführung von irgendwelchen Kundendienstarbeiten oder bei längerer Nichtverwendung des Gerätes stets den Netzstecker aus der Netzsteckdose ziehen.
- Lorsque la touche ON/STAND-BY est mise en STAND-BY, l'appareil est toujours sous tension.
  Lorsque la touche ON/STAND-BY se trouve sur la position STAND-BY, l'appareil est prêt à fonctionner par la télécommande.

  Avertissement:
  Cet appareil contient des pièces non réparables par l'utilisateur. Personne non qualifiée n'enlèvera jamais les couvercles. L'appareil contenant des organes portés à haute tension, débrancher l'appareil avant toute réparation ou en période de non-utilisation.
- Cuando el botón ON/STAND-BY está puesto en la posición STAND-BY, todavía hay tensión dentro del aparato.
  Cuando el botón ON/STAND-BY está puesto en la posición STAND-BY, el aparato puede ponerse en funcionamiento utilizando el controlador remoto.

  Advertencia:
  Tenga en cuenta que dentro de este aparato no hay piezas que pueda reparar. No quite nunca las tapas a menos que se esté cualificado para hacerlo. Este aparato tiene en su interior tensiones peligrosas.
  Desenchufe siempre la clavija de la red del tomacorriente antes de realizar cualquier servicio de mantenimiento y cuando no se use el aparato durante un largo período de tiempo.
- När ON/STAND-BY knappen är i läge STAND-BY, finns nätspänning i apparaten.
  Med ON/STAND-BY knappen i läge STAND-BY kan apparaten startas med fjärrkontrollen.

  Varning:
  Apparaten innehåller inga delar som kan åtgärdas av kunden. Höljet får endast öppnas av kvalificerad personal. Apparaten innehåller farliga spänningar.
  Stickkontakten ska därför dras ut från nätuttaget före reparationsarbeten och bör dras ut om apparaten inte ska användas på mycket länge.

- Quando il tasto ON/STAND-BY si trova in posizione STAND-BY, all'interno dell'apparecchio c'è ancora la corrente.
  Se il tasto ON/STAND-BY si trova nella posizione STAND-BY, l'unità può essere accesa con il telecomando.

  Avvertenza:
  L'apparecchio non contiene parti riparabili dall'utente.
  Non togliere mai i coperchi, a meno di non essere qualificati per farlo. All'interno dell'apparecchio ci sono tensioni pericolose, per cui si deve sempre staccare la spina del cavo d'alimentazione dalla presa di corrente prima di qualsiasi intervento di manutenzione e quando non si usa l'apparecchio per un lungo periodo di tempo.

- Wanneer de ON/STAND-BY toets in de STAND-BY stand staat, loopt er nog steeds stroom (netspanning) in het toestel.
  Wanneer de ON/STAND-BY toets in de STAND-BY stand staat, kan het toestel ingeschakeld worden via de afstandsbediening.

  Waarschuwing:
  Dit toestel bevat geen door de gebruiker te repareren onderdelen. Verwijder de behuizing nooit tenzij u deskundig bent op dit gebied. In het toestel loopt een gevaarlijke spanning; haal de stekker altijd uit het stopcontact alvorens onderhoud uit te voeren of wanneer het toestel voor langere tijd niet gebruikt wordt.

- Quando o botão ON/STAND-BY está na posição STAND-BY, a tensão da rede principal ainda está presente dentro da unidade.
  Quando o botão ON/STAND-BY está na posição STAND-BY, a unidade pode ser colocada em operação através do controle remoto.

  Advertência:
  Neste aparelho não há partes que podem ser consertadas pelo usuário. Nunca retire a tampa, a menos que você tenha qualificação para tal. Este aparelho contém voltagens perigosas. Remova sempre o cabo de alimentação da tomada antes de efetuar qualquer conserto ou quando deixar o aparelho muito tempo fora de uso.

- When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit.
  When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the remote control.

  Warning:
  This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.

- Når ON/STAND-BY-knappen er sat i STAND-BY positionen, er der stadig netspaending til stede i apparatet.
  Når ON/STAND-BY-knappen er sat i STAND-BY position, kan apparatet startes v.hj.a. fjernbetjeningen.

  Advarsel:
  Apparatet indeholder ingen dele, der kan repareres af brugeren selv. Fjern aldrig kabinettet med mindre De er kvalificeret hertil. Apparatet indeholder farlig strømspaending. Traek altid stikket ud af stikkontakten før der foretages reparationer, eller hvis apparatet ikke er i brug i laengere tid.

PŘED SEJMUTÍM KRYTU NUTNO VYJMOUT VIDLICI ZE SÍŤOVÉ ZÁSUVKY.

PRED ZLOŽENÍM KRYTU JE NUTNÉ ODPOJIŤ PRÍSTROJ ZO SIETE.

DENNA APPARAT ÄR ANSLUTEN TILL 230 V VÄXELSTRÖM NÄR STICKPROPPEN ÄR INSKJUTEN I VÄGGUTTAGET. FÖR ATT FULLSTÄNDIGT KOPPLA IFRÅN APPARATEN, V.G. DRAG UT STICKPROPPEN.

● **Vorsicht:**
Das Gerät weder Tropf- noch Spritzwasser aussetzen. Ansonsten besteht die Gefahr eines Brandes oder elektrischen Schlages. Es sollten keine mit Flüssigkeiten gefüllten Gegenstände wie Vasen auf dem Gerät abgestellt werden.

● **Attention:**
Pour éviter un incendie ou une secousse électrique, mettre l'appareil à l'abri de l'eau (éclaboussure, goutte). Ne pas poser sur l'appareil un récipient contenant du liquide.

● **Advertencia:**
Para evitar incendios y descargas eléctricas, no exponga el aparato a goteo o salpicadura de líquidos. No deberán ponerse encima del aparato objetos que estén llenos de líquido, como por ejemplo un florero.

● **Varning:**
Utsätt inte enheten för dropp eller stänk för att förhindra brand eller elektriska stötar. Inga vätskefyllda föremål såsom vaser bör placeras på enheten.

● **Attenzione:**
Per prevenire incendi o scosse elettriche, non fare gocciolare nessun liquido sull'apparecchio e non bagnarlo. Non collocarvi sopra nessun oggetto riempito d'acqua, come per esempio vasi.

● **Waarschuwing:**
Stel het toestel niet bloot aan druipend of spattend water om brand en elektrische schokken te voorkomen. Met vloeistoffen gevulde voorwerpen, zoals vazen, mogen niet op het toestel geplaatst worden.

● **Cuidado:**
Para evitar incêndio ou choque elétrico, não exponha este aparelho a gotejamento ou salpicamento de água. Não coloque objetos com água como, por exemplo, um vaso de flores, em cima do aparelho.

● **Warning:**
To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, should be placed on the apparatus.

● **Advarsel:**
Til at forbygge ild og stød risiko, lad vaere med at undsaette denne indretning for drypning eller overstaenkning. Der må ikke anbringes nogen genstande fyldt med vand, som for eksempel vaser, på dette apparat.

● **Advarsel:**
For å unngå brann eller kortslutning, utsett ikke produktet for vann eller fuktighet. Gjenstander som inneholder vaeske, feks. en blomstervase, må ikke plasseres oppå apparatet.

● **Varoitus:**
Älä vie laitetta sateeseen tai kosteisiin tiloihin. Jos laite on kostunut, anna sen kuivua ennen kuin käytät sitä verkkovirralla. Nestettä sisältäviä astioita kuten esim. kukkamaljakoita ei saa asettaa laitteen päälle.

PŘÍSTROJ NEVYSTAVUJTE KAPAJÍCÍ NEBO STŘÍKAJÍCÍ VODĚ.

PRÍSTROJ NEVYSTAVUJTE KVAPKAJÚCEJ ALEBO STRIEKAJÚCEJ VODE.

Urządzenie należy chronić przed zalaniem i wilgocią.

● **VORSICHT**
Verwendung von Regelungen oder Einstellungen bzw. Durchführung von anderen Verfahren als die hierin angegebenen kann zum Aussetzen gefährlicher Strahlung führen.

Da der in diesem Compact Disc Player verwendete Laserstrahl für die Augen schädlich ist, ist das Gehäuse unter keinen Umständen zu zerlegen.
Wenden Sie sich für Wartungsarbeiten nur an berechtigten Fachhändler.

● **ATTENTION**
Respecter les indications données relatives à la manipulation, au réglage et au fonctionnement. En cas de non-respect, on s'exposera à une radiation dangereuse.

Éviter absolument de démonter l'appareil, qui utilise un rayon laser nuisible aux yeux. Pour toute réparation, s'adresser à une personne qualifiée.

● **PRECAUCIÓN**
El uso de los controles, ajustes o ejecución de procedimientos distintos de los especificados podría causar la exposición a radiación peligrosa.

No intente desmontar la caja ya que el haz de láser usado en este reproductor de discos compactos es perjudicial para los ojos. Para el servicio de reparación, consulte a una persona cualificada.

● **OBSERVERA**
Användning av reglage eller justeringar eller handhavande på annat sätt än som anges kan leda till farlig bestrålning.

Försök inte ta isär höljet eftersom CD-spelarens laserstråle är skadlig för ögonen. Överlåt service endast till kvalificerad personal.

● **ATTENZIONE**
L'uso dei comandi e l'effettuazione di regolazioni e procedimenti diversi da quelli specificati nel manuale possono provocare una pericolosa esposizione alle radiazioni.

Poiché il raggio laser usato in questo giradischi può danneggiare gli occhi, non smontare l'apparecchio. Per le riparazioni rivolgersi a personale specializzato.

● **LET OP**
Gebruik van regelaars, het maken van instellingen, gebruik of handelingen anders dan in deze gebruiksaanwijzing vermeld, kan gevaarlijke straling blootleggen.

De laserstraal in deze CD-speler kan de ogen beschadigen, Probeer derhalve de ombouw niet te verwijderen. Laat reparaties alleen over aan erkend onderhoudspersoneel.

● **CUIDADO**
O uso de controles, ajustes ou a execução de procedimentos além daqueles especificados aqui pode resultar em perigosa exposição à radiação.

Como os raios laser usados neste player de CD são perigosos para os olhos, não tente desmontar o aparelho. Solicite o conserto somente para pessoas especializadas.

● **CAUTION**
Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

● Dieses Produkt ist ein Laserprodukt der Klasse 1.
● Ce produit est classifié comme étant un LASER DE CLASSE 1.
● Este producto está clasificado como un PRODUCTO LÁSER DE CLASE 1.
● Denna produkt klassificeras som KLASS 1 LASERPRODUKT.
● Questo prodotto è classificato come CLASS 1 LASER PRODUCT.
● Dit product is geclassificeerd als een KLASSE 1 LASER PRODUCT.
● Este produto é classificado como PRODUTO LASER DE CLASSE 1.
● This product is classified as a CLASS 1 LASER PRODUCT.

● Dette produktet er klassifisert som et KLASSE 1 LASERPRODUKT.
● Dette produkt er klassificeret som et KLASSE 1 LASERPRODUKT.
● Tämä laite on luokiteltu LUOKAN 1 LASERLAITTEEKSI.
● Denna produkt klassificeras som KLASS 1 LASERAPPARAT.
● Tento výrobek je klasifikován jako LASEROVÝ VÝROBEK TŘÍDY 1.
● Tento výrobok je klasifikovaný ako LASEROVÝ VÝROBOK TRIEDY 1.

VÝSTRAHA: VÝROBEK JE VYBAVEN LASEREM. PŘI NESPRÁVNÉ MANIPULACI S PŘÍSTROJEM V ROZPORU S TÍMTO NÁVODEM MŮŽE DOJÍT K NEBEZPEČNÉMU OZÁŘENÍ. NEOTVÍREJTE A NESNÍMEJTE PROTO ŽÁDNÉ KRYTY A PŘÍSTROJ NEOPRAVUJTE. OPRAVU A SERVIS SVĚŘTE ODBORNÉMU SERVISU.

**VÝSTRAHA: VÝROBOK JE VYBAVENÝ LASEROM.
PRI NESPRÁVNOM MANIPULOVANÍ S PRÍSTROJOM V ROZPORE S TÝMTO NÁVODOM MÔŽE DÔJSŤ K NEBEZPEČNÉMU OŽIARENIU. NEODKRÝVAJTE PRETO ŽIADNE KRYTY A PRÍSTROJ NEOPRAVUJTE. OPRAVU A SERVIS PRENECHAJTE ODBORNÉMU SERVISU.**

Eigenschaften der Laserdiode
Material: AlGaAs/AlGaInP
Wellenlänge: 785 nm/650 nm
Emissionsdauer: kontinuierlich
Laser-Ausgang: max. 0,6 mW

Caractéristiques de la diode laser
Matière: AlGaAs/AlGaInP
Longueur d'onde: 785 nm/650 nm
Durée d'émission: ininterrompue
Puissance de sortie
laser maximale: 0,6 mW

Características del diodo láser
Material: AlGaAs/AlGaInP
Longitud de onda: 785 nm/650 nm
Duración de emisión : continua
Salida de láser: máx. 0,6 mW

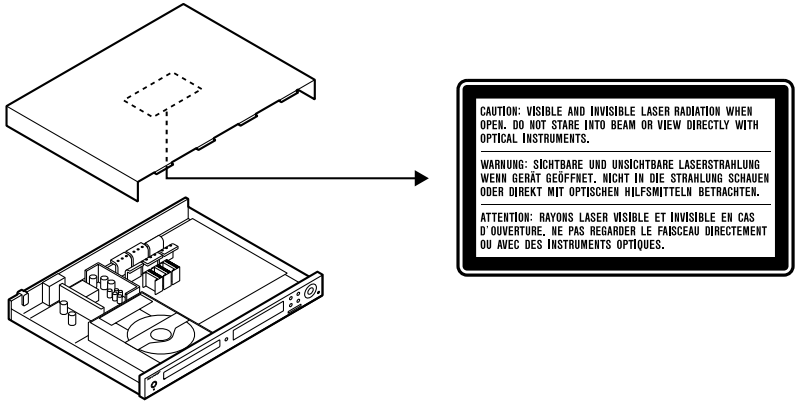
Laserdiodens egenskaper
Material: AlGaAs/AlGaInP
Våglängd: 785 nm/650 nm
Utstrålningsvaraktighet: kontinuerlig
Lasereffekt: max. 0,6 mW

Proprietà del diodo laser
Materiale: AlGaAs/AlGaInP
Lunghezza d'onda: 785 nm/650 nm
Durata di emissione: continua
Uscita massima del laser: 0,6 mW

Laser diode specificaties
Materiaal: AlGaAs/AlGaInP
Golflengte: 785 nm/650 nm
Stralingsduur: doorlopend
Laseruitgang: max. 0,6 mW

Propriedades do diodo de laser
Material: AlGaAs/AlGaInP
Comprimento de onda: 785 nm/650 nm
Duração da emissão: contínua
Saída de laser: máx. 0,6 mW

Laser Diode Properties
Material: AlGaAs/AlGaInP
Wavelength: 785 nm/650 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW


CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
WARNUNG: SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN GERÄT GEÖFFNET. NICHT IN DIE STRAHLUNG SCHAUEN ODER DIREKT MIT OPTISCHEN HILFSMITTELN BETRACHTEN.
ATTENTION: RAYONS LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. NE PAS REGARDER LE FAISCEAU DIRECTEMENT OU AVEC DES INSTRUMENTS OPTIQUES.

ADVERSEL-SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.

VARO! AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.

VARNING-SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.

VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VARNING - OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERAS. KAN ANVÄNDAREN UTSÄTTAS FÖR SYNLIG OCH OSYNLIG LASERSTRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

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Introduction

Thank you for purchasing this SHARP product. To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.

- HT-CN400DVH Home Cinema with DVD consisting of HT-CN400DVH (main unit), CP-CN400HF (front speakers), CP-CN400HC (centre speaker), CP-CN400HR (surround speakers) and CP-CN400HSW (subwoofer).
- HT-CN500DVH Home Cinema with DVD consisting of HT-CN500DVH (main unit), CP-CN500HF (front speakers), CP-CN500HC (centre speaker), CP-CN500HR (surround speakers) and CP-CN500HSW (subwoofer).

Icons used in this operation manual

Some functions may not be available depending on discs. The following icons indicate the discs that can be used in the section.

DVD ... Indicates DVDs.

SVCD ... Indicates Super video CDs.

VCD ... Indicates video CDs.

CD ... Indicates audio CDs.

MP3 ... Indicates CD-R/RW with MP3 recording.

JPEG ... Indicates CD-R/RW with JPEG recording.

- Some operations may not be performed depending on discs even if they are described in this manual.
- During operation, "✋" may be displayed on the screen. This means that the operations described in this manual are not possible.

Copyright Information:

- Unauthorised copying, broadcast, public display, transmission, public performance and rental (regardless of whether or not such activities are for profit) of disc contents are prohibited by law.
- This system is equipped with copy protection technology that causes substantial degradation of images when the contents of a disc are copied to a videotape.
- This system is protected by U. S. patents and other intellectual property rights, the copyright for which belongs to Macrovision Corporation. The use of Macrovision's copy protection technology in the system is authorised by Macrovision and is intended for home use only, unless otherwise authorised in writing by Macrovision. Reverse engineering or disassembly is prohibited.

Types of playable discs

The DVD player can play back discs bearing any of the following marks:

Disc type	Disc contents	Disc size
DVD Video Disc	Audio and video (movies)	12 cm (5") 8 cm (3")
Super Video CD	Audio and video (movies)	12 cm (5") 8 cm (3")
Video CD	Audio and video (movies)	12 cm (5") 8 cm (3")
Audio CD	Audio	12 cm (5") 8 cm (3")
CD-R/CD-RW (*1) Or CD-R/CD-RW recorded in MP3 format (*2), JPEG format (*3)	Audio and picture	12 cm (5") 8 cm (3")

(*1): The CD-R/CD-RW may not be played back properly depending on the recording equipment or the disc.
(*2): If the sampling frequency is 44.1 or 48.1 kHz and the fixed bit rate is 128 kbps or higher, MPEG 1 Audio Layer 3 (MP3) files can be played. However, some of them may not be played depending on their conditions or formats.
(*3): JPEG or JPG picture discs also play on this unit. However, pictures may not be clear (depends on resolution and recording method).

- For unplayable discs, see page 5.

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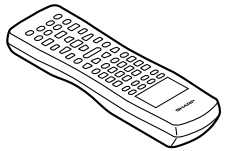
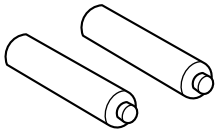
Accessories

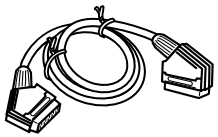
Please confirm that the following accessories are included.



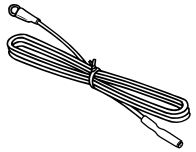
Remote control × 1



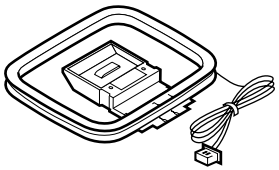
"AA" size battery (UM/SUM-3, R6, HP-7 or similar) × 2



SCART cable × 1



FM aerial × 1



AM loop aerial × 1

White and Black
(for left front speaker)
approx. 5 m (16 feet)

Green and Black
(for centre speaker)
approx. 5 m (16 feet)

Red and Black
(for right front speaker)
approx. 5 m (16 feet)

Purple and Black
(for subwoofer)
approx. 5 m (16 feet)

Blue and Black
(for left surround speaker)
approx. 15 m (49 feet)

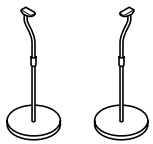
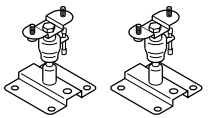
Grey and Black
(for right surround speaker)
approx. 15 m (49 feet)

Speaker connection lead × 6

Note:
Only the above accessories are included.

Optional accessories

Use only the specified optional accessories to operate this product properly.
For speaker installation, read instructions supplied with stands or brackets.

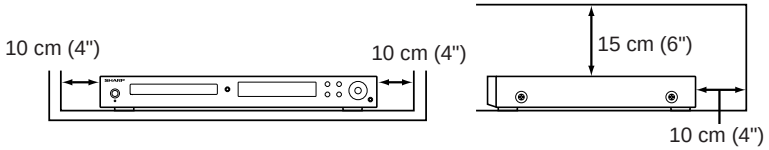
FLOOR SPEAKER STAND	SPEAKER WALL BRACKET
Model: AD-AT11ST	Model: AD-AT10SA
	

Notes:
- The appearance of optional accessories may differ from the illustrations above.
- Some of the above optional accessories may not be available depending on the area.

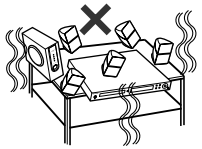
Precautions

■ General

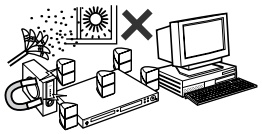
- Please ensure that the equipment is positioned in a well ventilated area and that there is at least 10 cm (4") of free space along the sides and back. There must also be a minimum of 15 cm (6") of free space on the top of the unit.



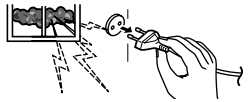
- Use the unit on a firm, level surface free from vibration.

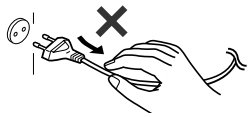


- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/ electrical equipment (home computers, facsimiles, etc.) which generates electrical noise.

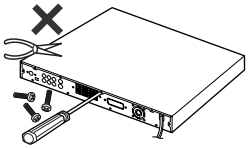


- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extremely low temperatures.
- If the unit does not work properly, unplug and plug it in again. Then turn on the unit.
- In case of an electrical storm, unplug the unit for safety.
- Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.

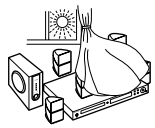




- **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**



- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.



- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- The apparatus is designed for use in moderate climate.
- This unit should only be used within the range of 5°C - 35°C (41°F - 95°F).

Warning:
The voltage used must be the same as that specified by this unit. Using this product with a higher voltage other than that specified is dangerous and may result in a fire or other types of accident, causing damage. SHARP will not be held responsible for any damage resulting from the use of this unit with a voltage other than that specified.

■ Volume control

The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels. Do not turn the volume on to full at switch on and listen to music at moderate levels.

Description of discs

■ Discs that cannot be played

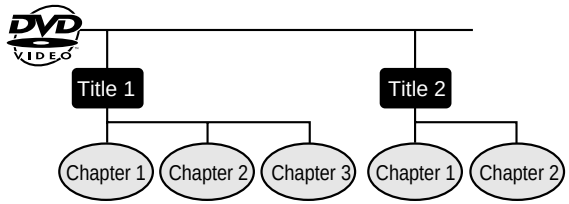
- DVDs without the region number "2" or "ALL".
- DVDs with SECAM system
- DVD-ROM
- DVD-RAM
- DVD-Audio
- CDG
- CDV
- Photo CD
- CD-ROM
- SACD
- Discs recorded in special formats, etc.

- The discs above cannot be played at all, or no sound is heard although images appear on the screen or vice versa.
- Incorrect operation may damage the speakers and can have an negative effect on your hearing when played at high volume settings.
- You cannot play illegally produced discs.

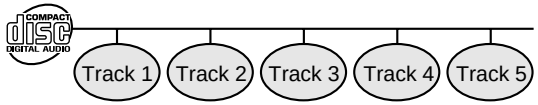
Notes:
- A disc with has scratches or fingerprints may not play properly. Refer to "Care of DVD/CD discs (page 51)" and clean the disc.
- Do not play the discs of special shapes (heart or octagon shaped) as they can be ejected whilst rotating and cause injury.

■ Title, chapter and track

DVDs are divided into "titles" and "chapters". If the disc has more than one movie on it, each movie is a separate "title". "Chapters" are subdivisions of titles.



Audio CDs consist of "tracks".
A "track" is each tune on an audio CD.



Note:
Title, chapter, or track numbers may not be recorded on some discs.

■ Icons used on DVD discs

Check the icons on the DVD case before playing your discs.

Display	Description
Region number (playable area number)	DVD discs are programmed with region numbers indicating countries in which they can be played. This system can play discs with region number "2" or "ALL".
Format recorded on the DVD	To adopt the video format to the connected TVs ("wide-screen TV" or "4:3 size TV").
4:3	Recorded in 4:3.
16:9 LB	You can enjoy wide images on a wide-screen TV, and letterbox size images on the 4:3 size TV.
16:9 PS	You can enjoy wide images on a wide-screen TV and 4:3 images with the side edges cut on the 4:3 size TV.
Type of subtitles recorded Example: 1: English 2: French	Recorded subtitle languages. Language can be selected with the SUBTITLE button.
Number of camera angles	Number of angles recorded on the DVD. Angles can be selected with the ANGLE button.
Number of audio tracks and audio recording systems Example: 1: Original <English> (DTS 5.1 Surround) 2: English (Dolby Digital 5.1 Surround)	The number of audio tracks and audio recording systems are indicated. ● The audio recorded on the DVD can be switched by using the LANGUAGE button. ● The number of audio tracks and recording systems vary depending on the DVD. Check them in the DVD's manual.

The list below shows the countries covered by region number 2.

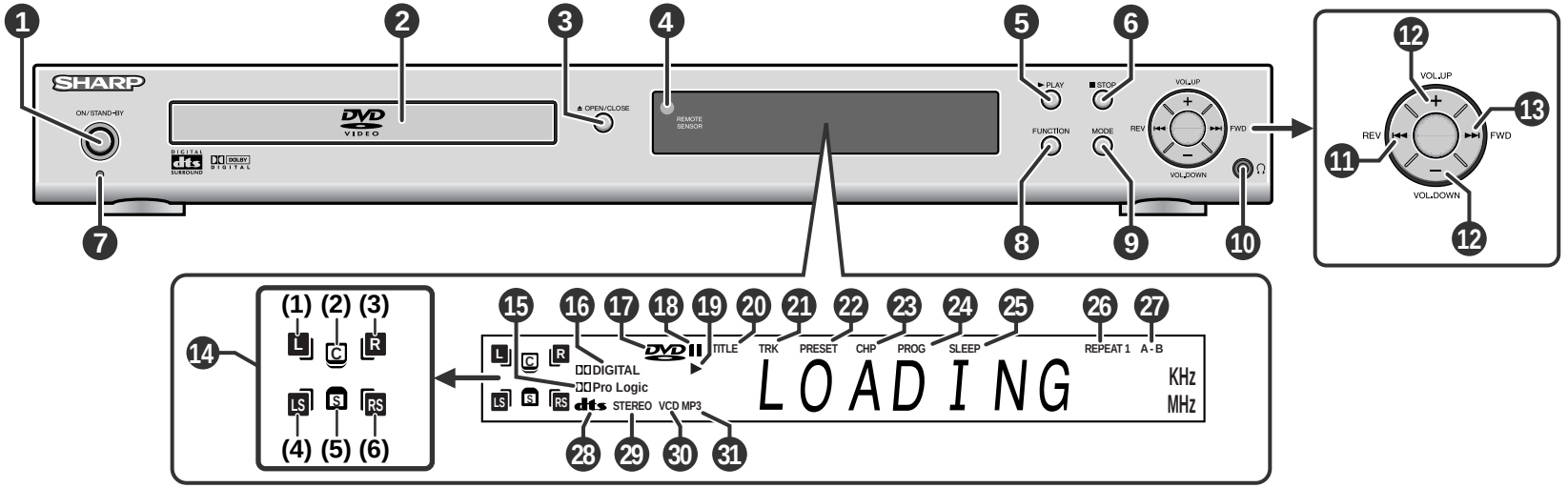
Hellenic Republic	Names of nations and areas
Albania	Republic of Albania
Andorra	Principality of Andorra
Austria	Republic of Austria
Bahrain	State of Bahrain
Belgium	Kingdom of Belgium
Bosnia and Herzegovina	Bosnia and Herzegovina
Bulgaria	Republic of Bulgaria
Channel Islands	*Channel Islands
Croatia	Republic of Croatia
Cyprus	Republic of Cyprus
Czech	The Czech Republic
Denmark	Kingdom of Denmark
Egypt	Arab Republic of Egypt
Faeroe Islands	*Faeroe Islands
Finland	Republic of Finland
France	French Republic
Germany	Federal Republic of Germany
Gibraltar	*Gibraltar
Greece	Hellenic Republic
Greenland	*Greenland
Hungary	Republic of Hungary
Iceland	Republic of Iceland
Iran	Islamic Republic of Iran
Iraq	Republic of Iraq
Ireland	Ireland
Isle of Man	*Isle of Man
Israel	State of Israel
Italy	Italian Republic
Japan	Japan
Jordan	Hashemite Kingdom of Jordan
Kuwait	State of Kuwait

Common names	Names of nations and areas
Lebanon	Republic of Lebanon
Lesotho	Kingdom of Lesotho
Liechtenstein	Principality of Liechtenstein
Luxembourg	Grand Duchy of Luxembourg
Macedonia	Republic of Macedonia
Malta	Republic of Malta
Monaco	Principality of Monaco
Netherlands	Kingdom of the Netherlands
Norway	Kingdom of Norway
Oman	Sultanate of Oman
Poland	Republic of Poland
Portugal	Portuguese Republic
Qatar	State of Qatar
Romania	Romania
San Marino	Republic of San Marino
Saudi Arabia	Kingdom of Saudi Arabia
Slovakia	The Slovak Republic
Slovenia	Republic of Slovenia
South Africa	Republic of South Africa
Spain	Kingdom of Spain
Svalbard and Jan Mayen Islands	*Svalbard and Jan Mayen Islands
Swaziland	Kingdom of Swaziland
Sweden	Kingdom of Sweden
Switzerland	Swiss Confederation
Syrian Arab Republic	Syrian Arab Republic
Turkey	Republic of Turkey
United Arab Emirates	United Arab Emirates
United Kingdom	United Kingdom of Great Britain and North-em Ireland
Vatican City State	State of the City of Vatican
Yemen	Republic of Yemen
Yugoslavia	Federal Republic of Yugoslavia

* represents area name.

Controls and indicators

■ Main unit (front panel)



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(1) Left Front Speaker Indicator
(2) Centre Speaker Indicator
(3) Right Front Speaker Indicator
(4) Left Surround Speaker Indicator
(5) Subwoofer Indicator
(6) Right Surround Speaker Indicator

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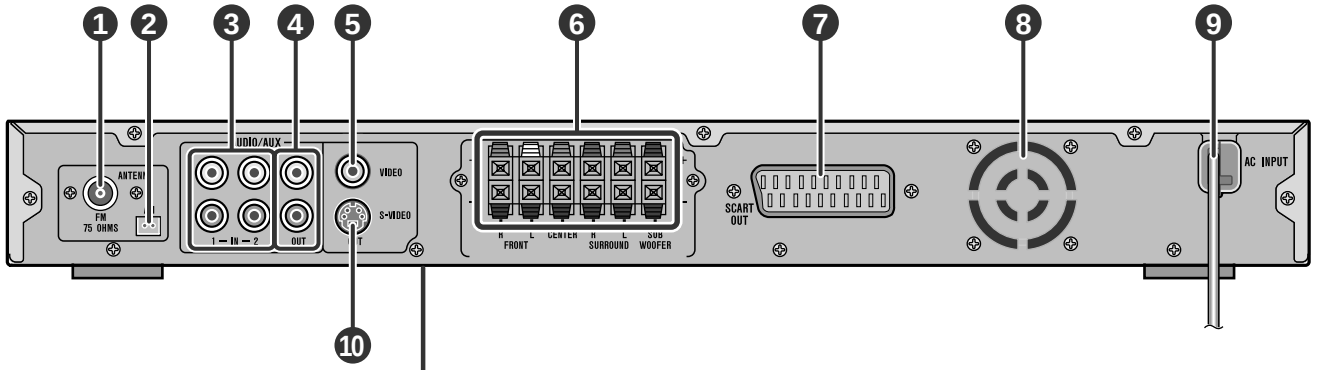
29. Stereo (2-ch) or FM Stereo Receiving Indicator	39, 43
30. SVCD/VCD/CD Indicator	24
31. MP3 or JPEG Indicator	24

■ Main unit (rear panel)



< The bottom of the unit >

SHARP	MODEL NO. HT-CN400DVH
HOME CINEMA WITH DVD 230V ~ 50Hz 88W	
SERIAL NO.	
SHARP CORPORATION	MADE IN CHINA

SHARP	MODEL NO. HT-CN500DVH
HOME CINEMA WITH DVD 230V ~ 50Hz 105W	
SERIAL NO.	
SHARP CORPORATION	MADE IN CHINA

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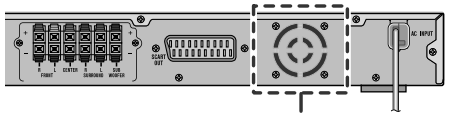
9. **AC Power Lead** 14
10. **S-video Output Socket** 13

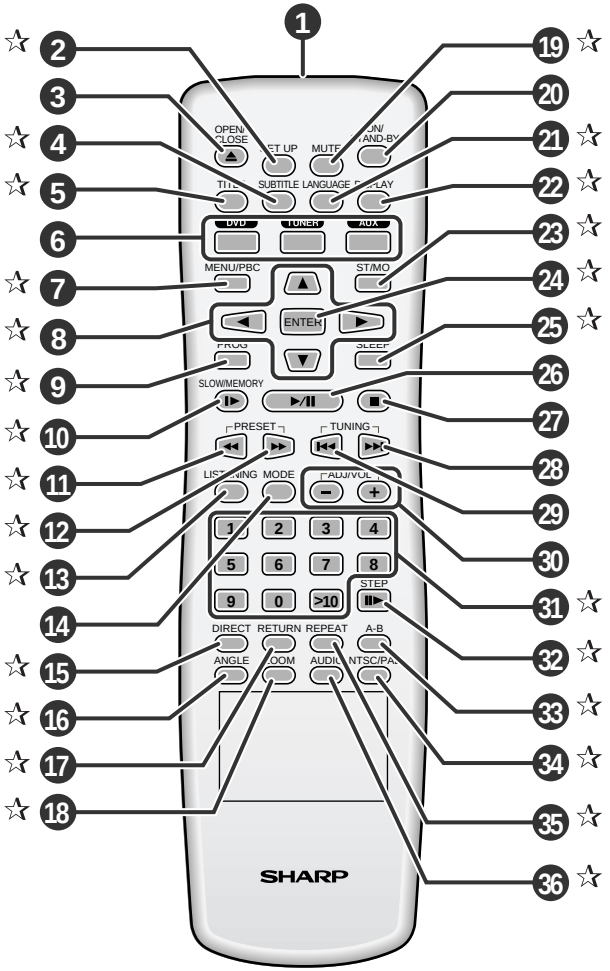
Cooling fan
This unit is fitted with a cooling fan at the rear for improved cooling. Do not cover the opening in this section with any obstacles.



Cooling fan

Caution:
- The unit will get warm whilst being used. Do not touch the warm areas of the unit for prolonged periods to avoid damage to you.
- This unit is equipped with a special function which protects the amplifier circuit from damages. When it is activated, the sound switch is turned off. In this case, unplug the unit and, after 15 minutes or more, plug it in again.

Controls and indicators (continued)



■ Remote control

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6. DVD/Tuner/Auxiliary Input Select Buttons 14, 23, 39
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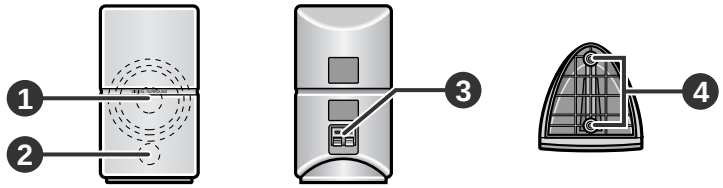
16. Angle Select Button 28
17. Return Button 33
18. Zoom Button 28, 38
19. Mute Button 22
20. On/Stand-by Button 16
21. Language Select Button 31
22. Display Button 32
23. FM Stereo/Mono Select Button 39
24. Enter Button 17
25. Sleep Button 47
26. Play or Pause Button 23, 24
27. Stop Button 24
28. Chapter (track) Skip Up or Tuning Up Button 25, 39
29. Chapter (track) Skip Down or Tuning Down Button 25, 39
30. Volume Up and Down or Speaker Level Adjust Buttons 22, 46
31. Direct Number Buttons 26
32. Frame Advance Button 27
33. A - B Repeat Button 30
34. NTSC/PAL Select Button 17, 32
35. Repeat Play Button 29
36. Audio Select Button 32

Buttons with "☆" mark in the illustration or highlighted in bold on the list can be operated on the remote control only.

■ Front/centre/surround speakers



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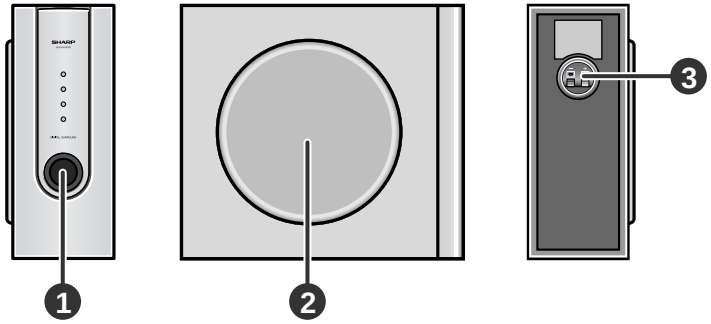
1. Speaker
2. Bass Reflex Duct
3. Speaker Terminals 11
4. Mounting Holes for Stand or Bracket 3

■ Subwoofer

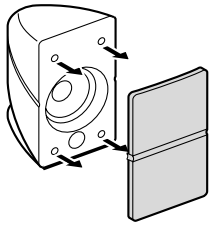


Reference page

1. Bass Reflex Duct
2. Woofer
3. Speaker Terminals 11

Speaker grilles are removable:

Make sure nothing comes into contact with the speaker diaphragms when you remove the speaker grilles.



■ Speaker functions

Front speaker:

Reproduces left and right sound (stereo mode) or front surround sound.

Centre speaker:

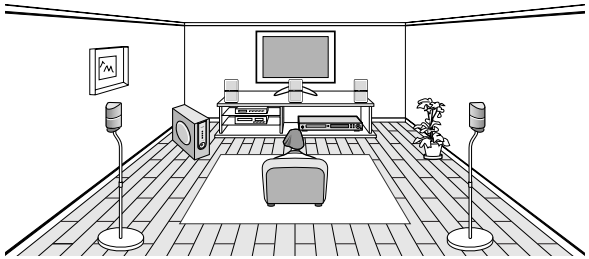
Reproduces centre surround sound.

Surround speaker:

Reproduces rear surround sound.

Subwoofer:

Reproduces bass sound.



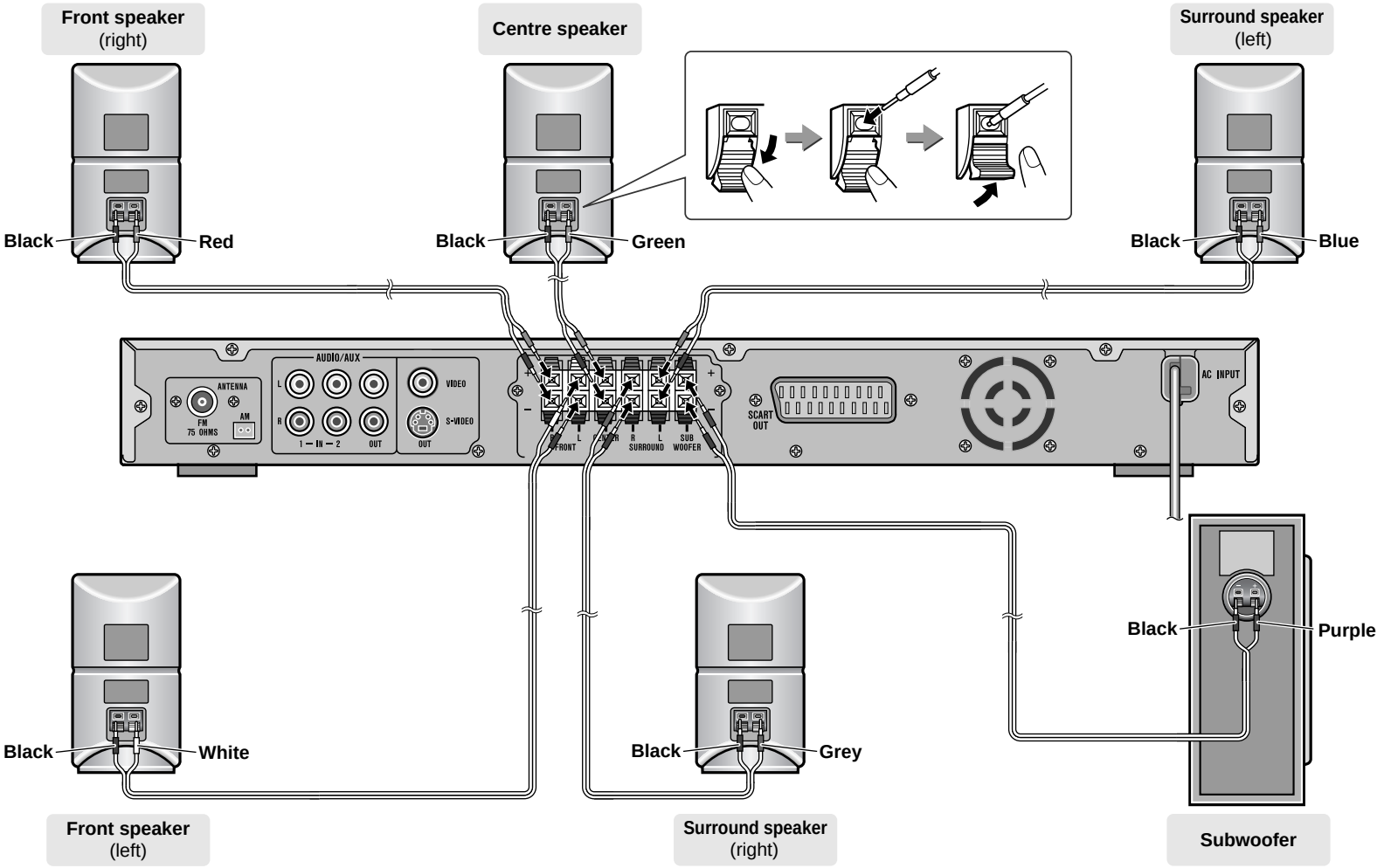
(For speaker installation, see page 15.)

Notes:

- Do not allow any objects to fall into or to be placed in the bass reflex ducts.
- Front and centre speakers are magnetically shielded.

Speaker connection

**Speaker terminals on the main unit and speakers, and speaker wires are distinguished by colours.
Connect the speaker and the unit by matching the colours.
(For speaker installation, see page 15.)**



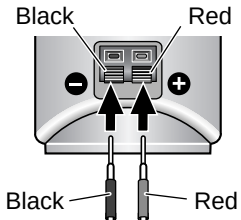
Aerial connection

■ Connecting speaker wires

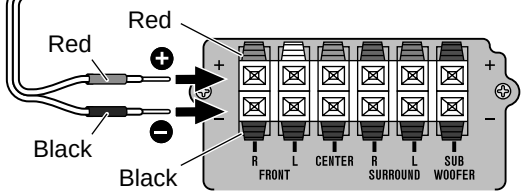
Make sure to leave the AC power lead disconnected when connecting the speakers.

To prevent accidental short circuits between ⊕ and ⊖ terminals, connect the speaker wires to the speakers first and then to the unit.

1 Connect the wires to the speakers.



2 Connect the other end to the main unit.



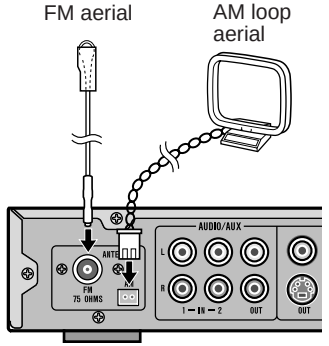
Caution:

- **The supplied speaker for HT-CN400DVH is designed exclusively for HT-CN400DVH. The speaker for HT-CN500DVH is exclusively for HT-CN500DVH. Do not connect speakers for HT-CN400DVH or HT-CN500DVH to other equipment. Also, do not connect other speakers to HT-CN400DVH or HT-CN500DVH. It may cause malfunction.**
- Do not mistake the ⊕ and ⊖, and right and left terminals of the speaker wires. (The right speaker is placed on the right when you face the unit.)
- **Do not let the bare speaker wires touch each other.**
- Do not stand or sit on the speakers. You may be injured.
- Do not short-circuit the speaker wires. If the power is turned on, malfunction may occur.
- When disconnecting the speaker wires, unplug the AC power lead, and then disconnect the speaker wires from the main unit.

Incorrect

Supplied FM aerial:
Connect the FM aerial wire to the FM 75 OHMS socket and position the FM aerial wire in the direction where the strongest signal can be received.

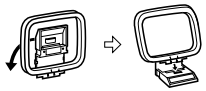
Supplied AM loop aerial:
Connect the AM loop aerial to the AM socket. Position the AM loop aerial for optimum reception. Place the AM loop aerial on a shelf, etc., or attach it to a stand or a wall with screws (not supplied).



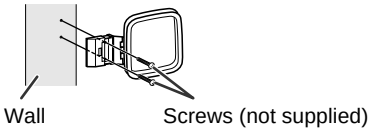
Note:
Placing the aerial on the unit or near the AC power lead may cause noise pickup. Place the aerial away from the unit for better reception.

Installing the AM loop aerial:

< Assembling >

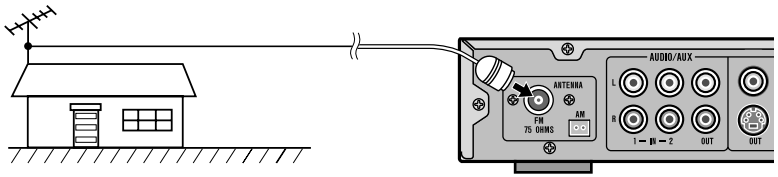


< Attaching to the wall >



External FM aerial:
Use an external FM aerial if you require better reception. Consult your dealer.

External FM aerial



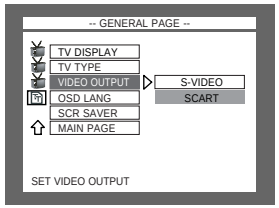
Connections to TV, VCR, etc.

Caution:

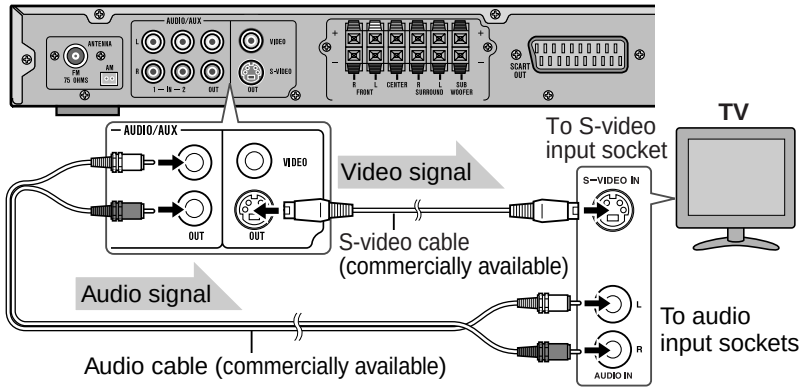
- Turn off all other equipment before making connections.
- Do not connect a TV or VCR to SCART OUT, S-VIDEO OUT and VIDEO OUT at the same time. The unit supports only a single connection.

Setting VIDEO OUTPUT

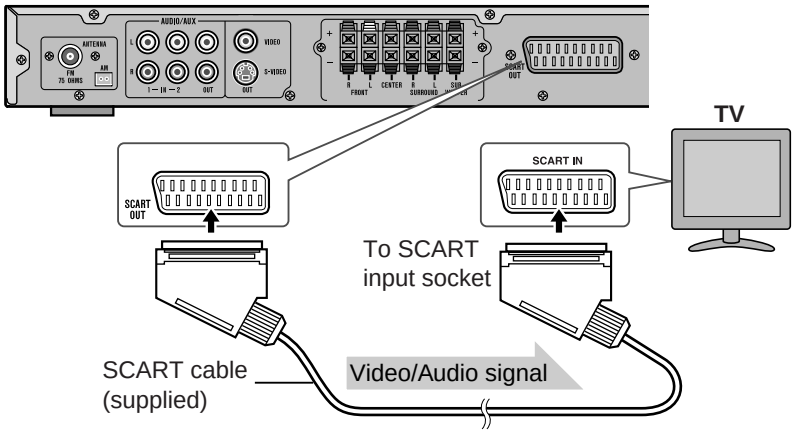
When connecting to the SCART OUT socket or S-VIDEO socket, switch the VIDEO OUTPUT setting accordingly. See page 20 for the method.



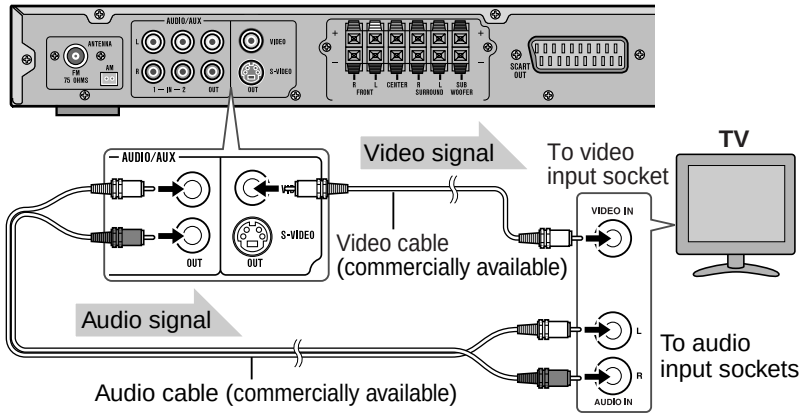
■ Connecting to a TV with an S-video input socket



■ Connecting to a TV with a SCART socket

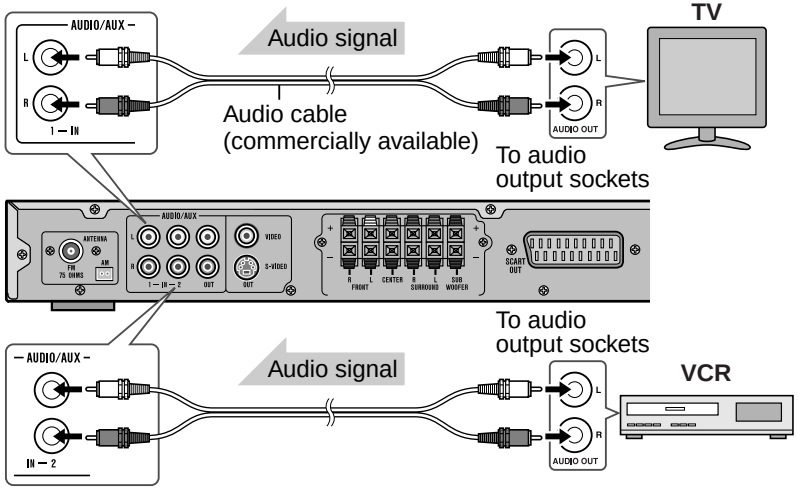


■ Connecting to a TV with a video input socket

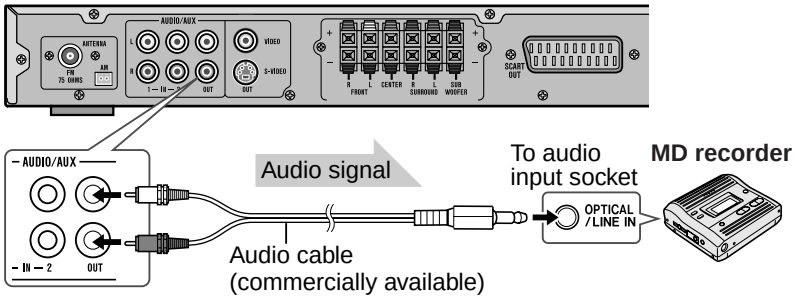


■ Audio connection to TV or VCR

You can enjoy surround sound from TV or VCR by connecting them to the unit as shown.



■ Audio connection to other equipment

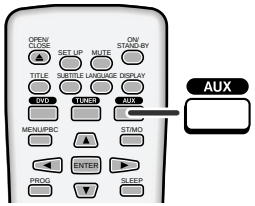


Notes:

- Change the TV input in accordance with the connected socket.
- Do not connect other equipment (VCR, etc.) between the TV and this unit. Pictures may be distorted.
- Refer to the operation manual of the equipment to be connected.
- Insert the plugs fully to avoid fuzzy pictures or noise.

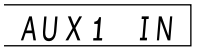
To listen to TV or VCR sound via the speakers of this unit:

Press the AUX button repeatedly to select the desired audio input.

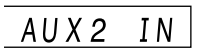


Unit display

- For the TV, select "AUX 1 IN".



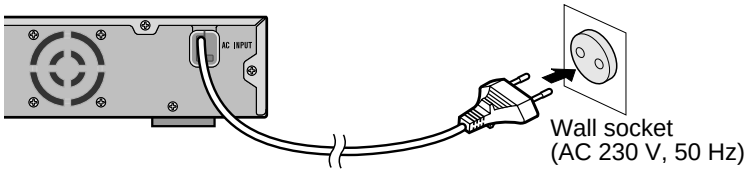
- For the VCR, select "AUX 2 IN".



- Alternatively, press the FUNCTION button on the main unit.

■ Connecting the AC power lead

After checking all the connections have been made correctly, plug the AC power lead of this unit into the wall socket.

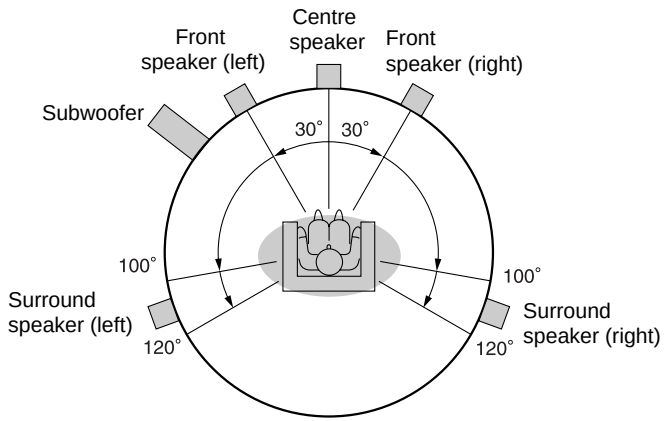


Note:
Unplug the AC power lead from the wall socket if the unit will not be used for a prolonged period of time.

System installation

■ Placing the speaker system

The best surround effect will be achieved by placing each speaker at the same distance from the listening position.
It is recommended to arrange the speakers as shown below.

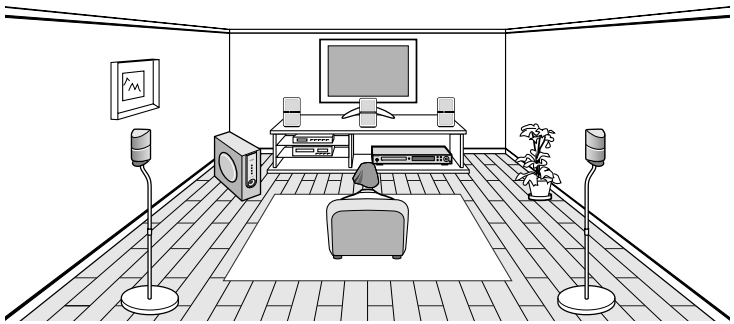


Note:

If speakers cannot be placed at equal distances, refer to "Speaker delay time setting" (see page 45).

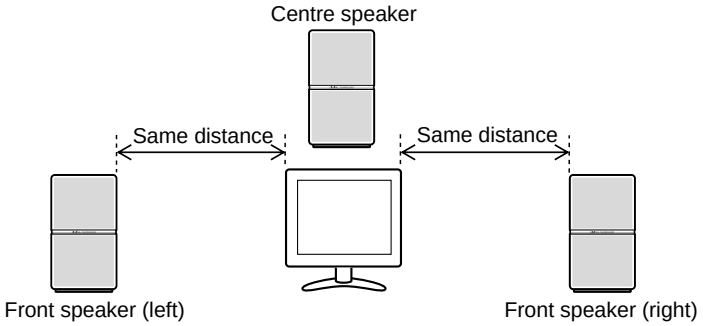
Installation image:

The speaker stands and speaker wall brackets are optionally available (see page 3). Refer to their instructions for assembly.



Notes:

- Place the TV halfway between the front speakers.
- It is recommended that the centre speaker be placed near the television.
- Place the surround speakers at a position just above the height of your ears.
- The subwoofer vibrates whilst reproducing bass. Place it on a stable, sturdy surface.
- The subwoofer reproduces bass. Place it anywhere you like.



■ Magnetically shielded speakers

The front and centre speakers may be placed beside or near the TV as they are magnetically shielded. However, discolouration may occur depending on the TV type.

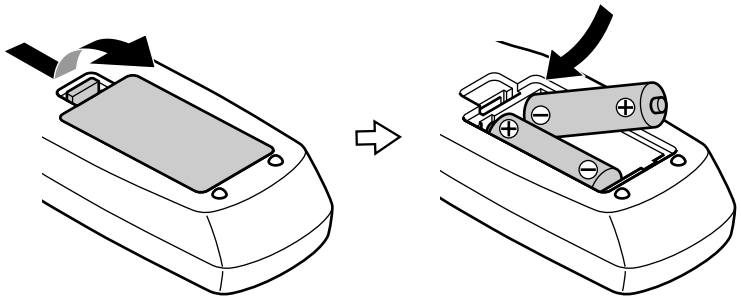
If colour variation occurs...
Turn off the TV (with the power switch).
After 15 - 30 minutes, turn the TV on again.

If the colour variation is still present...
Move the speakers further away from the TV.
Refer to the manual of the TV for details.

Note:
The surrounds speakers and subwoofer are not magnetically shielded.

Battery installation

1 **Open the battery cover.**
2 **Insert the supplied batteries according to the direction indicated in the battery compartment.**
When inserting or removing the batteries, push them towards the ⊖ battery terminals.
3 **Close the cover.**



Precautions for battery use:
- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if the unit is not to be used for long periods of time. This will prevent potential damage due to battery leakage.

Caution:
- Do not use rechargeable batteries (nickel-cadmium battery, etc.).
- Incorrect installation may cause the unit to malfunction.

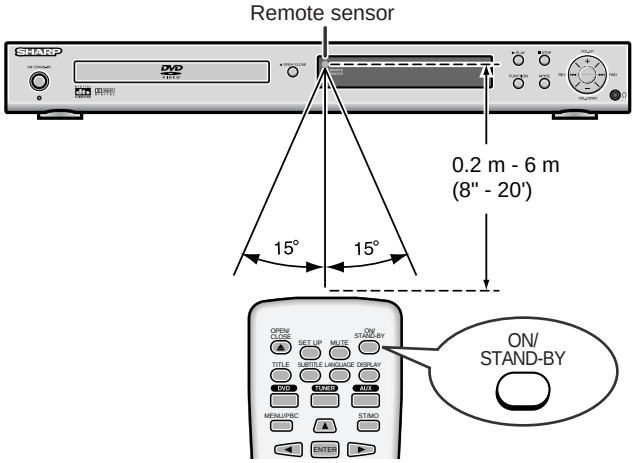
Notes concerning use:
- Replace the batteries if the operating distance is reduced or if the operation becomes erratic. Purchase 2 "AA" size batteries (UM/SUM-3, R6, HP-7 or similar).
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, heat, shock, and vibrations.

Turning the power on

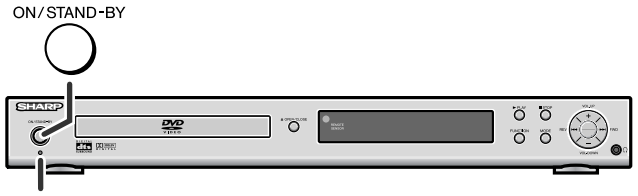
■ Test of the remote control

Check the remote control operation after making all the connections (see pages 11 - 14).
Point the remote control directly at the remote sensor on the unit.

The remote control can be used within the range shown below:
Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy your system.



■ To turn the power on

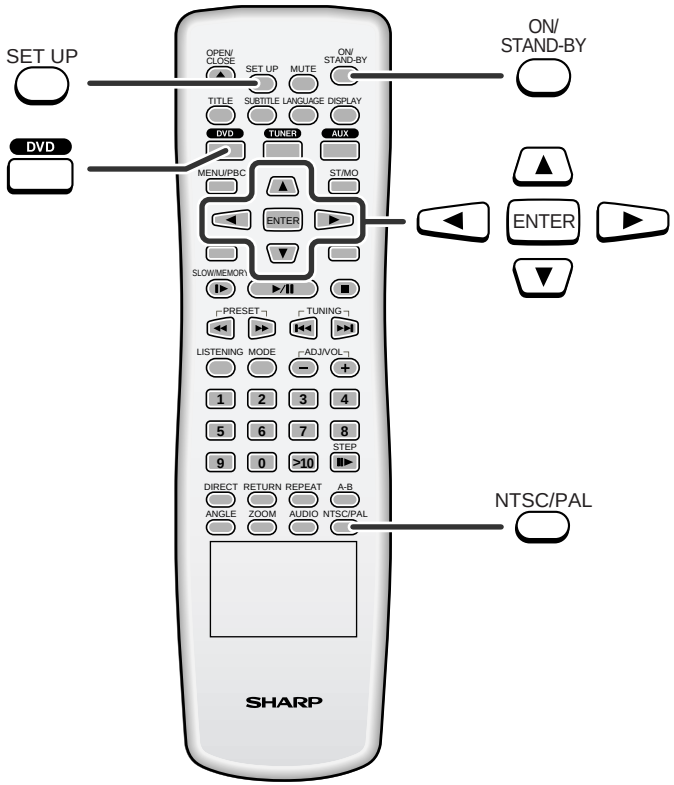


Press the ON/STAND-BY button.
If the power does not turn on, check the AC power lead is plugged in properly.

To set the unit to the stand-by mode:
Press the ON/STAND-BY button again.
The power stand-by indicator lights up.

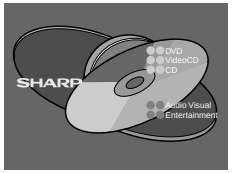
Changing the setup menu

Turn on the TV, and switch the input to the "VIDEO 1", "VIDEO 2", etc. accordingly.



1 Press the ON/STAND-BY button to turn the power on.

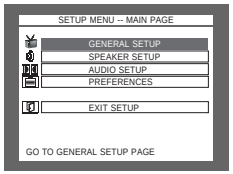
- The startup screen appears.
- The startup screen does not appear when the input is not set to the disc mode. Press the DVD button.
- If the startup screen is blurred, press the NTSC/PAL button repeatedly to change the TV type.



2 Press the SET UP button.

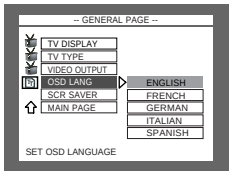
3 Press the ▲ or ▼ button to select a menu and press the ENTER button.

See the list on pages 18 - 19 for setup menu.



4 Press the ▲, ▼, ◄ or ► button to change the setting and press the ENTER button.

- See the list on pages 18 - 19 for the selectable parameters.
- Select "MAIN PAGE" and press the ENTER button. The main page returns.

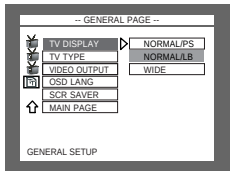
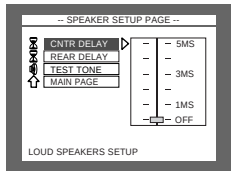
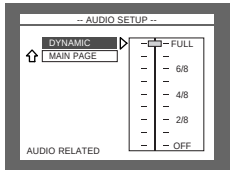


5 Press the SET UP button.

- The setting is completed.
- To change other settings, begin from step 2.

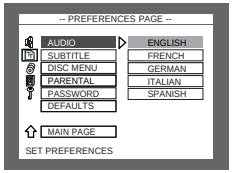
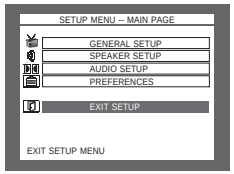
Notes:

- **During playback, "PREFERENCES" settings cannot be changed.**
- Settings are stored even if the unit is set to the stand-by mode.
- The backup function protects the stored settings for a few hours should there be a power failure or the AC power lead disconnection.

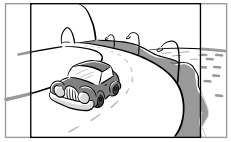
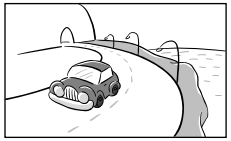
Setup menu	Selectable parameters (* indicates default settings.)			Description
GENERAL SETUP		TV DISPLAY	NORMAL/PS NORMAL/LB * WIDE	The screen mode should be set according to the connected TV type (for details, see page 20).
		TV TYPE	MULTI * NTSC PAL	Selects the correct colour system (TV standard) (for details, see page 20).
		VIDEO OUTPUT	S-VIDEO SCART *	Video signals are switched according to the connected cable (for details, see page 20).
		OSD LANG	ENGLISH * FRENCH GERMAN ITALIAN SPANISH	You can select the desired OSD (On Screen Display) language for the setup menu or playback control screen.
		SCR SAVER	ON	A screensaver appears.
			OFF *	The screensaver is disabled.
SPEAKER SETUP		CNTR DELAY	1 MS to 5 MS OFF *	Adjust the delay time of the speakers (for details, see page 45).
		REAR DELAY	3 MS to 15 MS OFF *	
		TEST TONE	ON OFF *	You can check the sound output from the speakers (for details, see page 46).
AUDIO SETUP		DYNAMIC (*1)	FULL *	Audio with fully compressed dynamic range.
			7/8 ⋮ 1/8	Audio with partially compressed dynamic range.
			OFF	Audio with uncompressed dynamic range.

(*1)
Selects the dynamic range compression to fit the individual listening situation of the audience. This function can be used in DVD playback.
Depending on the disc, sounds may become too loud or inaudible during playback. Dolby Digital's dynamic range control allows you to adjust the sound range.

Changing the setup menu (continued)

Setup menu	Selectable parameters (* indicates default settings.)			Description
PREFERENCES		AUDIO	ENGLISH * FRENCH GERMAN ITALIAN SPANISH	Selects the language audible from the speakers.
		SUBTITLE	ENGLISH * FRENCH GERMAN ITALIAN SPANISH OFF	Selects the subtitle displayed on the TV screen.
		DISC MENU	ENGLISH * FRENCH GERMAN ITALIAN SPANISH	Selects the disc menu language.
		PARENTAL	1 G ⋮ 6 PG-R ⋮ NO_PARENTAL *	Sets a restriction level for DVD viewing (for details, see page 21). Enter a 4-digit password. It is set to 3308 by default.
		PASSWORD	CHANGE	Change the password (for details, see page 21).
		DEFAULTS	RESET	This resets all settings, except for PARENTAL and PASSWORD, to the factory defaults.
EXIT SETUP		–	–	The setting is completed.

■ TV display setting

Indicator	Setting
NORMAL/PS	When playing a wide image (16:9) disc, the left and right sides of the image are cut (pan scan) to display a natural-looking 4:3 size image. A wide image disc without pan scan PS is played back in 4:3 letterbox. A 4:3 disc is played in 4:3. 
NORMAL/LB	When playing a wide image (16:9) disc, black bands are inserted at the top and bottom and you can enjoy full wide images (16:9) on a 4:3 size TV. A 4:3 disc is played in 4:3.
WIDE	A wide image (16:9) is displayed when playing a wide image (16:9) disc.  ● When playing a 4:3 image disc, the image size depends on the setting of the connected TV. ● If you play back a wide image (16:9) disc with this unit connected to a 4:3 TV, the vertically shrunk image is displayed.

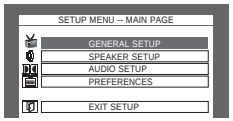
Note:
When playing the disc with a fixed video format, it will not change even if the TV screen size is changed.

■ TV type setting

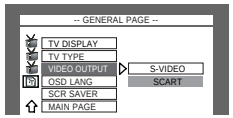
Indicator	Setting
MULTI	Select this mode for the multi-system TV.
NTSC	Select this mode for the NTSC TV.
PAL	Select this mode for the PAL TV.

■ Video output setting

1 Select "GENERAL SETUP" on the setup menu screen (see steps 1 - 3 on page 17).



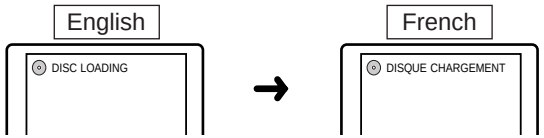
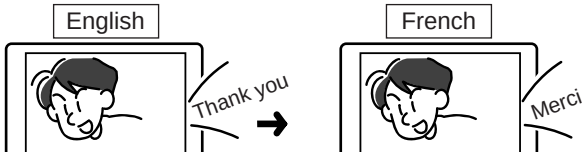
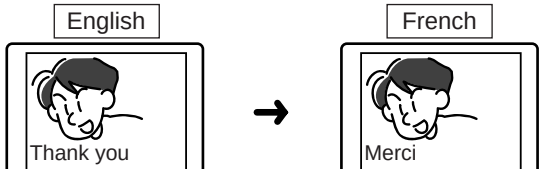
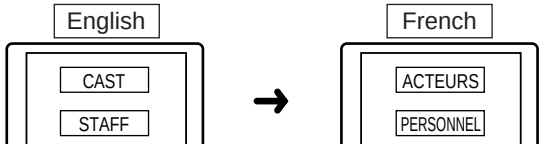
2 After selecting "VIDEO OUTPUT" in step 4 on page 17, select "S-VIDEO" or "SCART" and press the ENTER button.



Indicator	Setting
S-VIDEO	Sending video signals from an S-VIDEO OUTPUT socket.
SCART	Sending video signals from a SCART OUTPUT socket.

Changing the setup menu (continued)

■ Language setting

Indicator	Setting
OSD LANG	A language for screen display can be set for the setup menu, messages, etc. 
AUDIO	A language for audio can be set. You can specify a language for conversation and narration. 
SUBTITLE	A language for subtitle can be set. The subtitles are displayed in a specified language. 
DISC MENU	A language for disc menus can be set. Menu screens are displayed in a specified language. 

■ Parental setting

1 Select "PREFERENCES" on the setup menu screen (see steps 1 - 3 on page 17).

2 After selecting "PARENTAL" in step 4 on page 17, select the parental level and press the ENTER button.

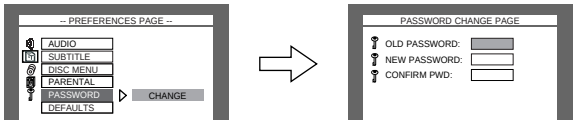
3 Enter a 4-digit password using the direct number buttons and press the ENTER button.
If this is the first time, enter "3308".

Indicator	Setting
1 G	Only DVD software intended for children can be played back.
2 to 7 NC-17	Only DVD software intended for general use and children can be played back.
8 ADULT	DVD software of any grade (adult/general/children) can be played back.
NO_PARENTAL	Parental lock is cancelled.

Note:
Whilst playing a disc with parental lock, the display may appear requesting a password in order to watch some restricted scenes. In such a case, enter the password to temporarily change the parental level.

■ Password setting

From the setup menu, select "PREFERENCES", "PASSWORD" and then "CHANGE". A screen appears.



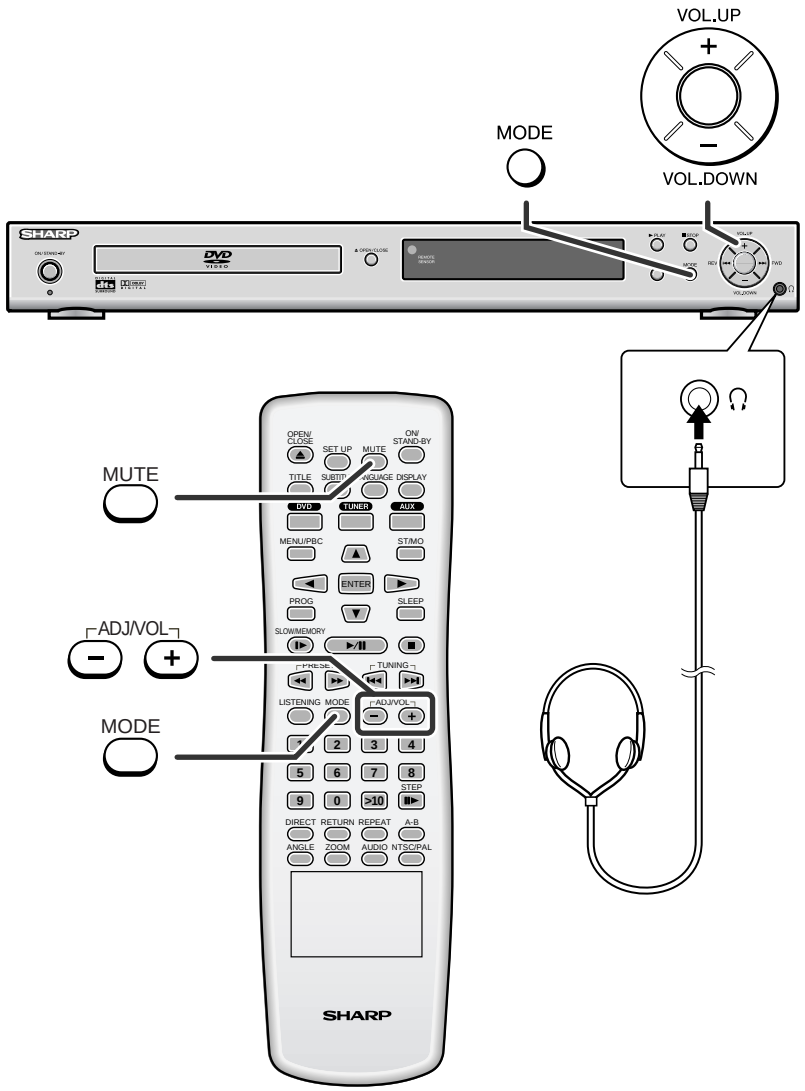
1 Enter the old password using the direct number buttons.

2 Enter the new password using the direct number buttons.

3 Enter the new password again for confirmation.

Note:
When you forget your password, cancel the current password by pressing "3308" using the direct number buttons (0 - 9).

General control



■ Volume control

Press the VOL.UP + (ADJ/VOL +) button to increase the volume and the VOL.DOWN − (ADJ/VOL −) button for decreasing.

VOLUME 10

00 ↔ 1 ↔ 2 ····· 38 ↔ 39 ↔ MAX

■ Treble and Bass

1 Press the MODE button repeatedly to select the TREB or BASS.

TREB 00dB

− 10 dB to + 10 dB

2 Within 3 seconds, press the VOL. UP + (ADJ/VOL +) or VOL. DOWN − (ADJ/VOL −) button to adjust the level.

You can adjust the level at 1 dB intervals.

BASS 00dB

− 10 dB to + 10 dB

■ Muting

The volume is muted temporarily when pressing the MUTE button on the remote control.
Press again to restore the volume.

MUTE ON

↕

MUTE OFF

■ Headphones

When headphones are plugged in, the system will enter the stereo mode automatically.

When headphones are unplugged, the system will return to the previous status.

PHONE ON

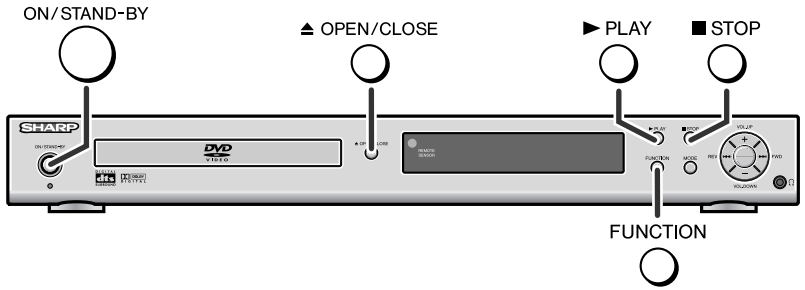
↕

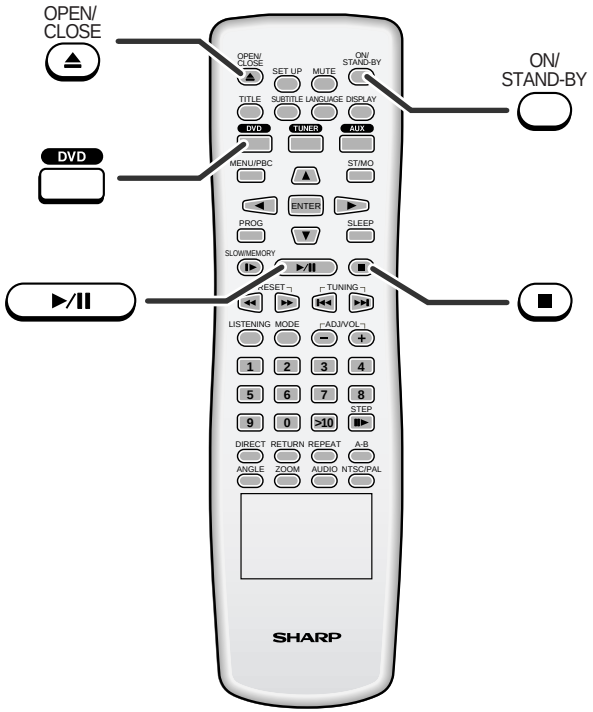
1 2 0:25:50

- Before plugging in or unplugging the headphones, reduce the volume.
- Be sure your headphones have a 3.5 mm (1/8") diameter plug and are between 16 ohms and 50 ohms impedance. The recommended impedance is 32 ohms.
- Plugging in the headphones disconnects the speakers automatically. Adjust the volume using the VOL buttons.
- **You cannot use the surround feature with headphones.**
- Do not plug in/out headphones when recording on other equipment. Sound may skip.

DVD playback

Turn on the TV, and switch the input to the "VIDEO 1", "VIDEO 2", etc. accordingly.



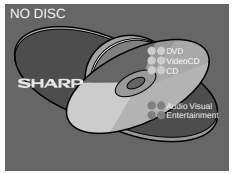


■ Playback DVD CD MP3 JPEG

1 Press the ON/STAND-BY button to turn the power on.

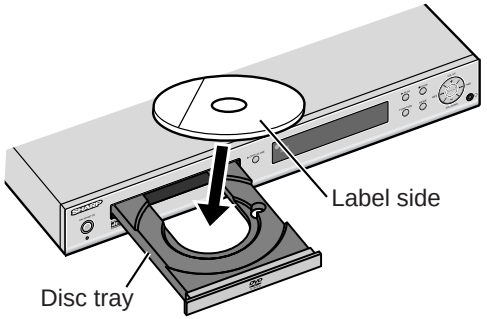
2 When the input is not set to the disc mode, press the FUNCTION button repeatedly to display the startup screen.

- The startup screen appears.
- Alternatively, press the DVD button on the remote control.



3 Press the ▲ OPEN/CLOSE button to open the disc tray.

4 Place the disc on the disc tray, label side up.



Be sure to place 8 cm (3") discs in the middle of the disc position.

5 Press the ▲ OPEN/CLOSE button to close the disc tray.

Discs supporting auto start will start to play once you close the disc tray even if you do not press the ► PLAY (►/II) button.

6 If playback does not start in step 5, press the ► PLAY (►/II) button.

To interrupt playback
Press the ► PLAY (►/II) button.
To resume playback from the same point, press the ► PLAY (►/II) button.

To stop playback
DVD:
Press the ■ STOP (■) button twice.

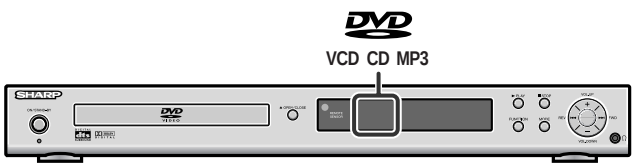
Audio CD/MP3/JPEG:
Press the ■ STOP (■) button.

When the unit is left unoperated for more than 5 minutes after pressing the ■ STOP (■) button, a screen saver appears (see page 18 when the screen saver setting is "ON").
Press any button on the main unit or remote control. The startup screen returns.

Caution:
- Close the disc tray when not in use. Otherwise, dust may accumulate inside and cause malfunction.
- The unit gets slightly warm when used for a long time. It does not mean the unit is damaged.
- When attempting to play discs with scratches or of a different region number, or unplayable or restricted (*1) discs, an error message will appear on the TV display and the disc will not play.

(*1) Viewing is prohibited on some DVDs according to the audience age.

Notes:
- Stop positions may be recorded on some discs. When you play such a disc, playback stops there.
- During an operation, "✋" may appear indicating that the operation is disabled by the disc.
- The main unit detects loaded discs automatically and then the indicators light up.

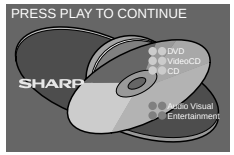


■ To resume playback after stopping (resume play) DVD

You can resume playback from the point playback is stopped.

1 Whilst a disc is playing, press the ■ STOP (■) button.

The system stores the point you stopped.



2 To restart play, press the ► PLAY (►/II) button.

Play resumes from the point you stopped.

To cancel the resume playback:
Press the ■ STOP (■) button twice.

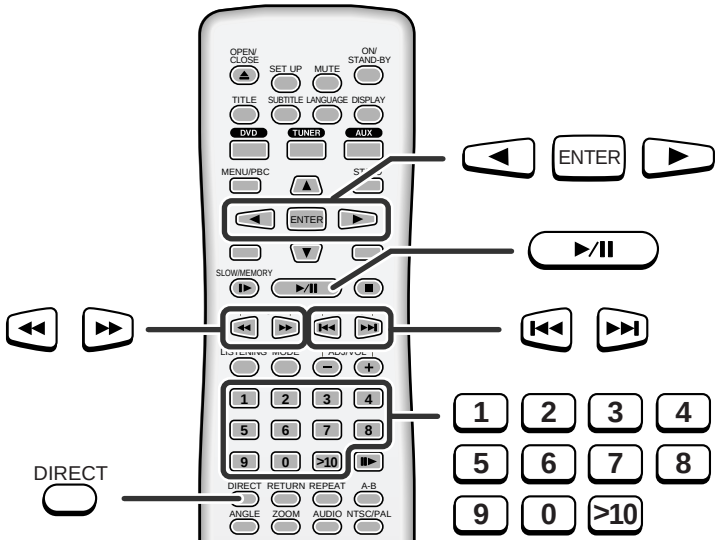
Notes:
- The resume playback feature is disabled on some discs.
- Depending on the disc, playback may resume from slightly before the stopped position.

■ DVD mode operation indicators DVD

The following are examples of operation indicators that appear during DVD playback.

Operation	TV screen	Unit display
When the power is on without a disc	NO DISC	NO DISC
Disc data is being read	DISC LOADING	LOADING
Stop	STOP	TITLE 2 CHP 10
Play	PLAY	TITLE 1 CHP 1
Pause	PAUSE	TITLE 1 CHP 1

Basic operation



■ To locate the beginning of a chapter (track) (skip)

DVD SVCD VCD CD MP3 JPEG

You can move to other tracks with simple operations.
When playing SVCD or VCD, cancel the P.B.C. (playback control) (see page 34).

Whilst a disc is playing, press the ⏮ or ⏭ button.

- Use the ⏭ button to skip to the next chapter (track).
- Use the ⏮ button to skip to the previous chapter (track).
- On SVCD, VCD and Audio CD, the ⏮ button skips to the beginning of the current track. Press the ⏮ button again to skip to the beginning of the previous track.

Notes:

- Some discs do not display the chapter (track) and the skip feature is disabled.
- On a DVD, skip does not operate between titles.
- Alternatively, press the ⏮ or ⏭ button on the main unit.

■ Fast forward/Fast reverse (search)

DVD SVCD VCD CD MP3

You can search the desired point as you play the disc.

1 Whilst a disc is playing, press the ◀◀ or ▶▶ button.

Example: When the ▶▶ button is pressed
On DVD, the speed changes as follows:

FF X 2

PLAY (Normal play) → X 2 → X 4 → X 6 → X 8

On SVCD/VCD/Audio CD/MP3, the speed changes as follows:

PLAY (Normal play) → X 1 → X 2 → X 3 → X 4

The disc is forwarded by the ▶▶ button and reversed by the ◀◀ button.

2 Press the ▶/II button to return to the normal playback.

Notes:

- On some discs, the search function is disabled.
- On a DVD, search does not operate between titles.
- On SVCD, VCD, audio CD and MP3, the search does not operate between tracks.
- Whilst searching on a DVD, the sound is not heard and the subtitles do not appear.
- Whilst searching on an SVCD or a VCD, the sound is not heard.
- Audio CD or MP3 disc sounds will break up during search. This is not a malfunction.
- When search is performed during the DVD playback, pictures may not be forwarded or reversed in the search speed specified in this manual, depending on the disc or the scene being played.
- The search does not operate on JPEG discs.

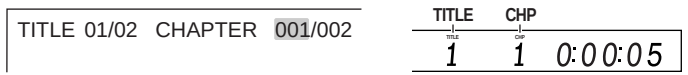
03/7/2 HTCN400_500DVH_E.fm 92LCN400E0270

■ To start playback from the desired point (direct play) DVD

To select and play the desired title and chapter:

1 Whilst in the stop or playback mode, press the DIRECT button.

TV screen **Unit display**



2 Within 10 seconds, select the title or chapter by pressing the ◄ or ► button and enter the title or chapter number using the direct number buttons.

If the track number is 2 digits or more, press ">10" and enter the number.

Example:

To select chapter 1: Press "1".

To select chapter 12: Press ">10" and "2".

To select chapter 22: Press ">10", ">10" and "2".

3 Within 10 seconds, press the ENTER button.

Notes:

- Direct play feature is disabled on some discs.
- Some discs may not display the chapter number.
- With DVDs, you can specify the desired point only in the current title and not in another title.

To play by specifying time (time search):

You can play back from the desired point by specifying the time.

1 Whilst in the stop or playback mode, press the DIRECT button twice.

If the "_ _:_ _:_ _" is not highlighted, press the ◄ or ► button repeatedly.

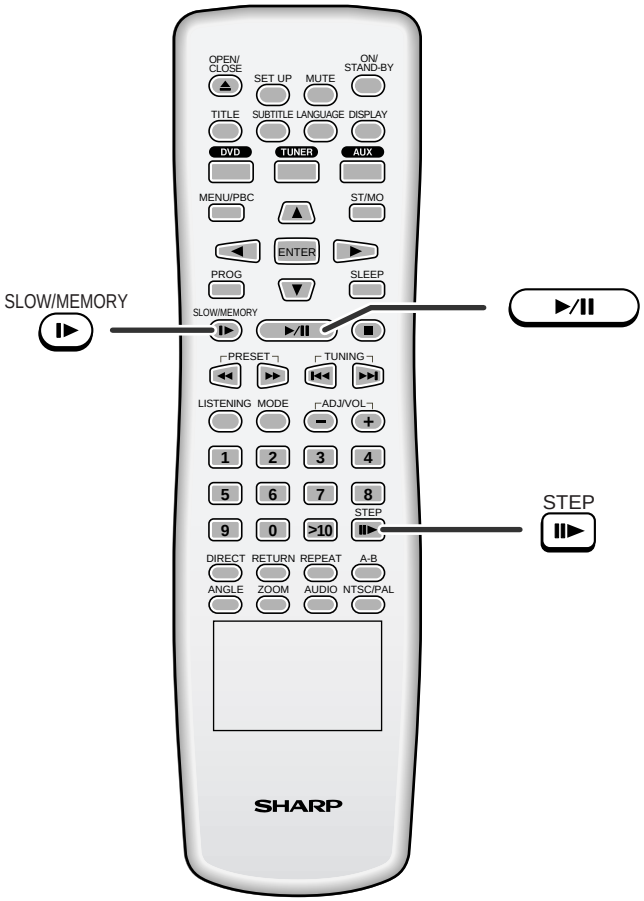
2 Within 10 seconds, specify the time with the direct number buttons, and then press the ENTER button.

- To specify 1 hour 23 minutes and 40 seconds, enter "012340".
- If you enter the wrong number, start over from step 1.

Notes:

- Some discs cannot play from the specified point.
- Time search feature is disabled on some discs.

Useful operation



■ Still picture/Frame advance DVD SVCD VCD

You can freeze the image and advance frame by frame.

1 Whilst a disc is playing, press the STEP II► button.

Each press of the STEP II► button advances the frame.

2 Press the ►/II button to return to the normal playback.

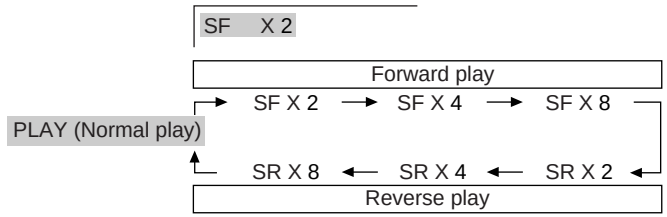
Note:
Still picture and frame advance features are disabled on some discs.

■ Slow-motion play DVD SVCD VCD

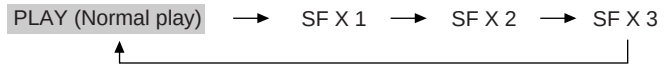
You can slow down the playback speed.

1 Whilst a disc is playing, press the SLOW/MEMORY I► button repeatedly to select the desired speed.

On DVD, the speed changes as follows:

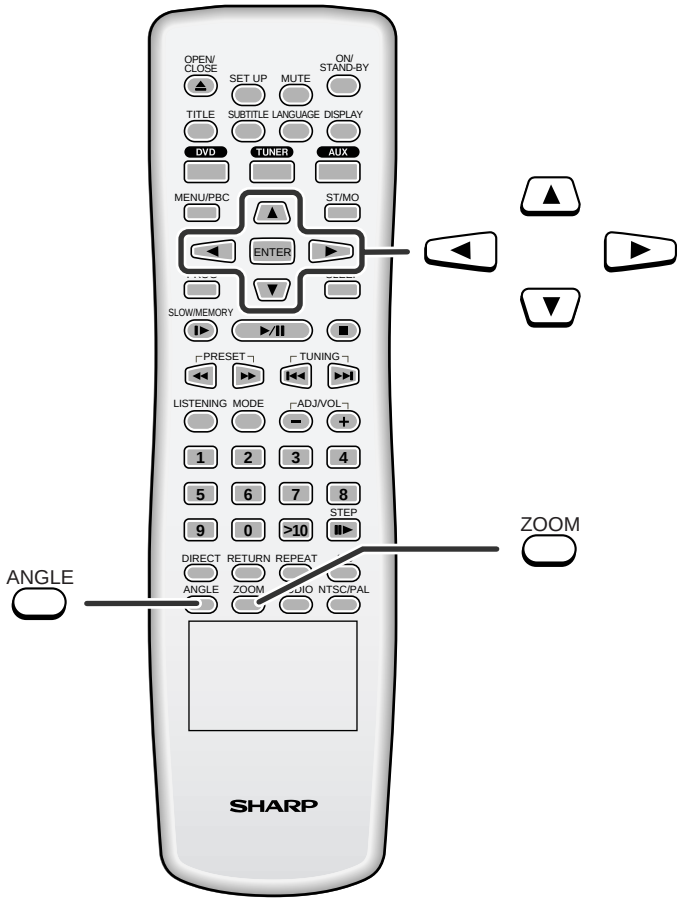


On SVCD/VCD, only forward play is possible and the speed changes as follows:



2 Press the ►/II button to return to the normal playback.

Note:
On some discs, the slow-motion play functions are disabled.



■ To change the angle DVD

You can change the angle of view when playing a DVD disc that contains scenes recorded from multiple angles.

When "" is displayed in the upper right corner of the TV screen, press the ANGLE button repeatedly to select the desired angle number.

Notes:
- The angle number is not displayed if angles are not recorded on the disc.
- Refer to the manual of the disc as the operation may vary depending on the disc.

■ To zoom images (zoom) DVD SVCD VCD

You can magnify images during playback.

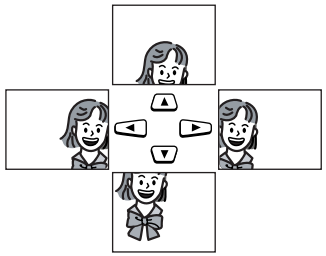
1 Whilst a disc is playing, press the ZOOM button.

ZOOM X1.5

Each press of the ZOOM button cycles through the zoom settings as follows:

ZOOM X1.5 → ZOOM X2 → ZOOM X3 → ZOOM OFF

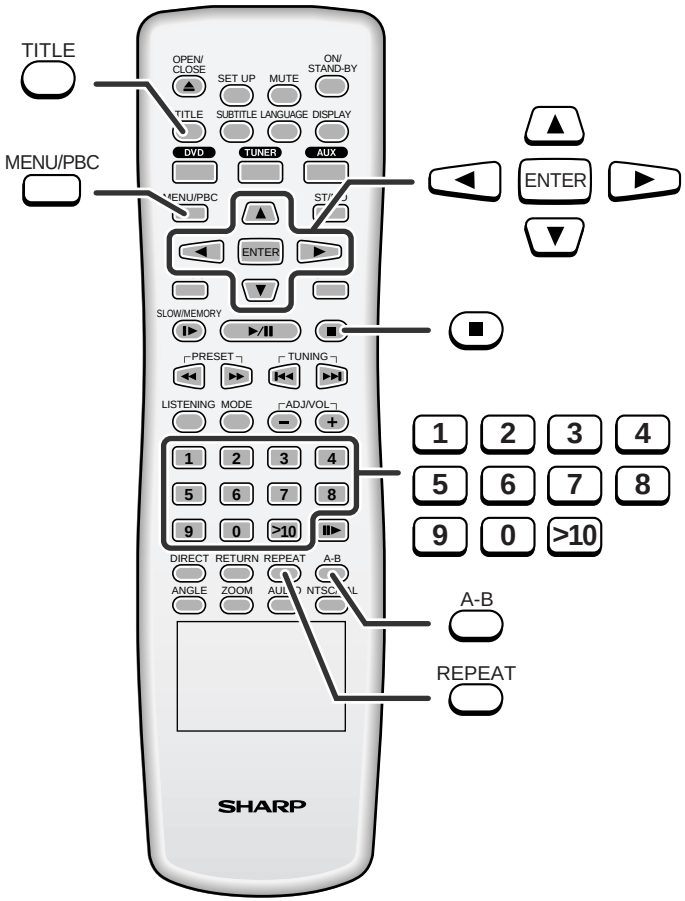
2 To shift the view and display the desired part of a zoomed image, press the ▲, ▼, ◄ or ► button repeatedly.



To return to normal view:
Press the ZOOM button repeatedly to select "ZOOM OFF".

Notes:
- Images may become distorted when zoomed.
- Subtitles cannot be zoomed.

Useful operation (continued)



■ To play repeatedly (repeat play)

DVD SVCD VCD CD MP3 JPEG

You can play a chapter (track) or a title repeatedly by specifying it during playback.
When playing SVCD or VCD, cancel the P.B.C. (playback control) (see page 34).

1 Whilst a disc is playing, press the REPEAT button.

TV screen	Unit display
CHAPTER REPEAT ON	REPEAT 1

Each time the button is pressed, the repeat play mode changes in the following order.

The repeat play mode changes as follows on DVD:

"CHAPTER REPEAT ON"	"REPEAT 1"	Repeat the currently playing chapter.
"TITLE REPEAT ON"	"REPEAT"	Repeat the currently playing title.
"REPEAT OFF"	No display	The normal playback.

The repeat play mode changes as follows on SVCD/VCD/audio CD/MP3/JPEG:

"REP-ONE"	"REPEAT 1"	Repeat the currently playing track.
"REP-ALL"	"REPEAT"	Repeat the currently playing disc.
"REPEAT OFF"	No display	The normal playback.

MP3 and JPEG are displayed when MP3 menu screen is off (see page 37).

2 To return to the normal playback, press the REPEAT button repeatedly to select "REPEAT OFF".

Caution:
After performing repeat play, be sure to press the ■ button. Otherwise, the disc will play continuously.

Note:
On some discs, the repeat play function is disabled.

■ To play the contents between the specified points repeatedly (A-B repeat)

DVD SVCD VCD CD

You can play the desired portion repeatedly by specifying it during playback.

1 Whilst a disc is playing, press the A - B button.

TV screen	Unit display
A TO B SET A	A-

This registers the start point (A).

2 Press the A - B button again to enter the end point (B).

TV screen	Unit display
A TO B SET B	A-B

This starts A-B repeat from the start point (A) to the end point (B).

3 Press the A - B button to return to the normal playback.

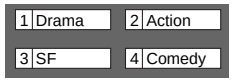
Notes:
- A-B repeat play is disabled on some discs.
- A-B repeat play for DVD is possible only within a title.
- A-B repeat play for SVCD/VCD is possible only within a track.
- Some scenes on DVD may not allow A-B repeat play.

■ To select a title from the top menu of the disc DVD

On a DVD with multiple titles, you can select a title from the top menu.

1 Whilst in the stop or playback mode, press the TITLE button to display the title menu.

Example



2 Use the ▲, ▼, ◄ or ► button to select a title, and then press the ENTER button.
- The selected title plays.
- Or use the direct number buttons for some discs.

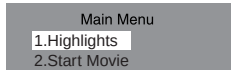
Note:
The procedure shown here provides only general steps. The actual procedure for using the title menu depends on the disc. See the disc jacket for details.

■ To select a subtitle or audio language from the disc menu DVD

You can select the desired subtitle or audio language and sound system [Dolby Digital (5.1ch) or DTS sound] on your DVD if it has a disc menu.

1 Whilst in the stop or playback mode, press the MENU/PBC button to display the disc menu.

Example



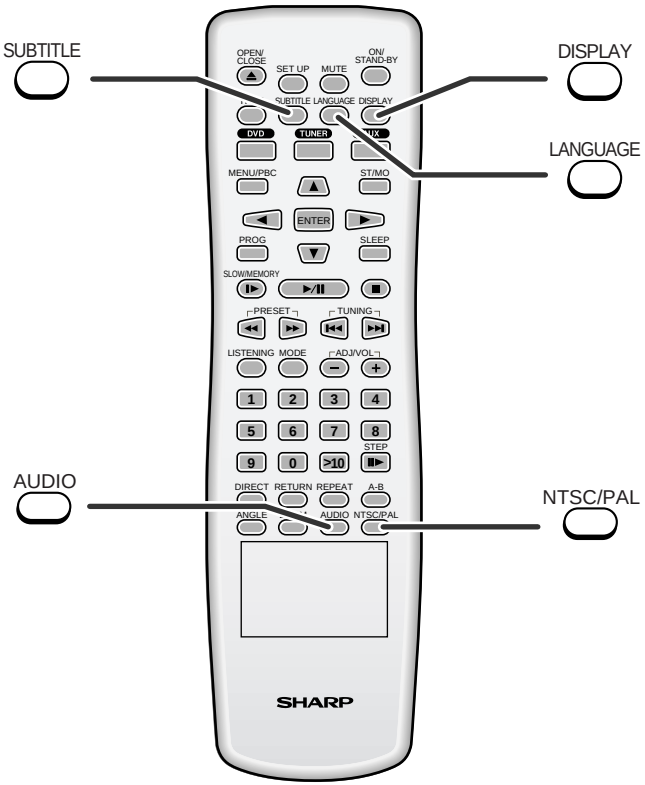
2 Press the ▲, ▼, ◄ or ► button to change the setting and press the ENTER button.

Or use the direct number buttons for some discs.

Note:
The procedure shown here provides only general steps. The actual procedure for using the disc menu depends on the disc. See the disc jacket for details.

Various settings

The subtitle language, audio language and TV type you select during playback are reset each time you set this unit to the stand-by mode or switch the input. To keep your own settings, set them in the setup menu (see page 17).



■ To change the subtitle language DVD SVCD

You can change the subtitle language or hide subtitles during playback.

Whilst a disc is playing, press the SUBTITLE button repeatedly to select the desired subtitle language.

SUBTITLE 01/03: ENGLISH

Notes:

- On some discs, the subtitle language cannot be changed.
- If no subtitles are recorded on the disc, "SUBTITLE OFF" is displayed.
- It may take time to switch the subtitle language to the selected one.
- Subtitles cannot be hidden on some DVDs.

■ To change the audio language (audio output) DVD SVCD

During playback, you can change the audio language (audio output).

Whilst a disc is playing, press the LANGUAGE button repeatedly to select the desired audio number.

AUDIO 2/8: AC-3 5.1CH ENGLISH

You can select recorded languages.

ENGLISH → FRENCH → ··· → SPANISH

Notes:

- On some discs, the audio language cannot be changed.
- For the audio language and audio system, refer to the manual of the disc.

■ To change the TV type DVD SVCD VCD

You can select a TV type.

Whilst in the stop or playback mode, press the NTSC/PAL button repeatedly to select a TV type.

MULTI → NTSC → PAL

■ To change the audio channel DVD SVCD VCD CD

You can select an audio channel.

Whilst a disc is playing, press the AUDIO button repeatedly to select the desired audio channel.

The audio channel changes as follows on DVD:

AUDIO 1 → AUDIO 2 → AUDIO 1 VOCAL → AUDIO 2 VOCAL

The audio channel changes as follows on SVCD/VCD:

STEREO → LEFT VOCAL → RIGHT VOCAL
MONO RIGHT ← MONO LEFT

The audio channel changes as follows on audio CD:

STEREO → MONO LEFT → MONO RIGHT

Note:
The audio channel may not be changed on some discs.

■ To change the display on TV screen

DVD SVCD VCD CD MP3

You can display or hide the operation indicators on the TV screen.

Whilst a disc is playing, press the DISPLAY button. (The display is changed at each press.)

DVD:

Current title number Current chapter number

TITLE 02/05 CHAPTER 001 / 008
00:30:21

Total number of chapters
Total number of titles
Elapsed playback time for the current title

TITLE REMAIN
00:45:00
Remaining playback time for the current title

SINGLE ELAPSE TIME
00:01:23
Elapsed playback time for the current chapter

SINGLE REMAIN TIME
00:03:03
Remaining playback time for the current chapter

OFF

MP3:

SINGLE ELAPSE TIME 00:05:21
Elapsed playback time for the current track

SINGLE REMAIN TIME 00:02:35
Remaining playback time for the current track

OFF

SVCD/VCD/Audio CD:

SINGLE ELAPSED
00:01:16
Elapsed playback time for the current track

SINGLE REMAIN
00:03:21
Remaining playback time for the current track

TOTAL ELAPSED
00:12:40
Total elapsed playback time for the disc

TOTAL REMAIN
00:48:54
Total remaining playback time for the disc

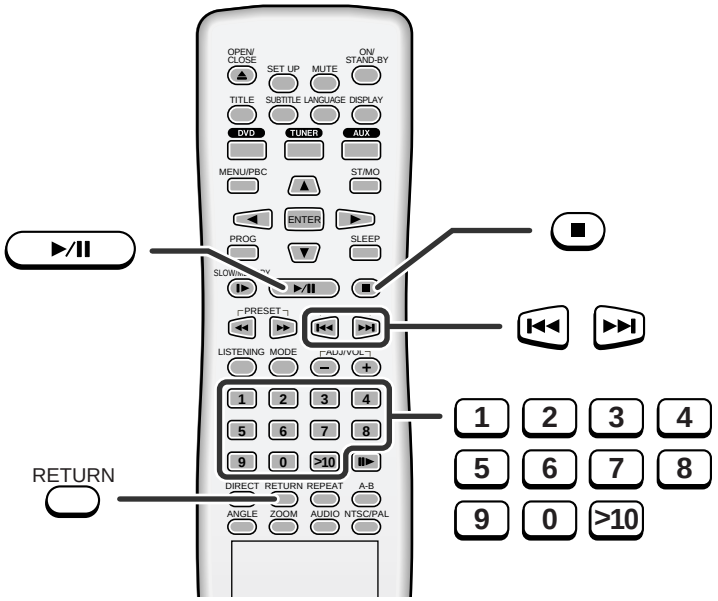
OFF

Note:
When P.B.C. is set to ON for SVCD or VCD, total playback time and total remaining playback time do not appear.

Video CD and Super Video CD playback

The following playback functions are the same as DVD or CD operations.

Page
To locate the beginning of a chapter (track) (skip) 25
Fast forward/Fast reverse (search) 25
Still picture/Frame advance 27
Slow-motion play 27
To zoom images (zoom) 28
To play repeatedly (repeat play) 29
To play the contents between the specified points repeatedly (A-B repeat) . . 30
To change the subtitle language 31
To change the audio language (audio output) 31
To change the TV type 32
To change the audio channel 32
To change the display on TV screen 32
To play in the desired order (programmed play) 35



■ Playback of a video CD (super video CD) with P.B.C. SVCD VCD

1 Press the ►/II button.

The menu will appear on the TV and playback will be paused.

Example

2 Select the desired menu number using the direct number buttons.

- Playback starts.
- After playback stops, the menu will reappear. Select the menu number to play.

To interrupt playback:
Press the ►/II button.
To resume playback from the same point, press the ►/II button.

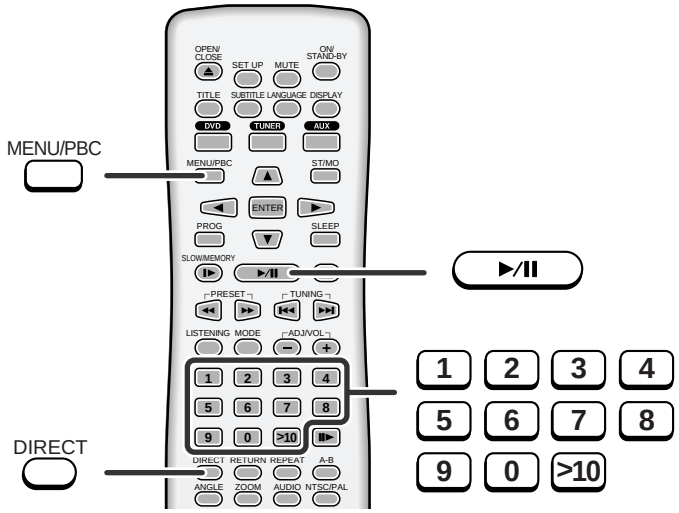
To stop playback:
Press the ■ button.

To stop the current operation and return to the menu:
Press the RETURN button.

To scroll the menu screen (menu screen with more than 1 page):
Press the I◄◄ or ►►I button.

The P.B.C. function will not work in the following conditions.
Repeat/programmed/direct play or the skip feature is in operation.

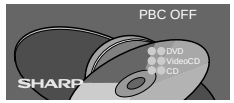
Notes:
- Subtitles and sounds on the super video CD can be switched (see page 31).
- The menu screen cannot be scrolled on some discs.



■ To play without activating the playback control function SVCD VCD

You can play a video CD (super video CD) with P.B.C. without activating the playback control function.
In this case, the menu screen will not appear, and the disc will play in the same way as a video CD (super video CD) without P.B.C.

1 Whilst in the stop or playback mode, press the MENU/PBC button to cancel the P.B.C. mode.



2 Press the ►/II button.

Playback starts.

Note:
Some video CDs (super video CDs) with P.B.C. cannot be played back when the P.B.C. mode is off.

■ To start playback from the desired point (direct play)

To select and play the desired track: SVCD VCD CD MP3 JPEG
Cancel the P.B.C. (playback control).

Whilst in the stop or playback mode, press the direct number buttons to select the track number.

TV screen	Unit display
SELECT: 14	TRK 14 0:00:05

If the track number is 2 digits or more, press ">10" and enter the number.
Example:
To select track 14: Press ">10" and "4".

Notes:
- Direct play feature is disabled on some discs.
- Some discs cannot play from the specified point.

To play by specifying time (time search): SVCD VCD CD
Cancel the P.B.C. (playback control).

1 During playback, press the DIRECT button.

GO TO __:__

2 Specify the time with the direct number buttons.

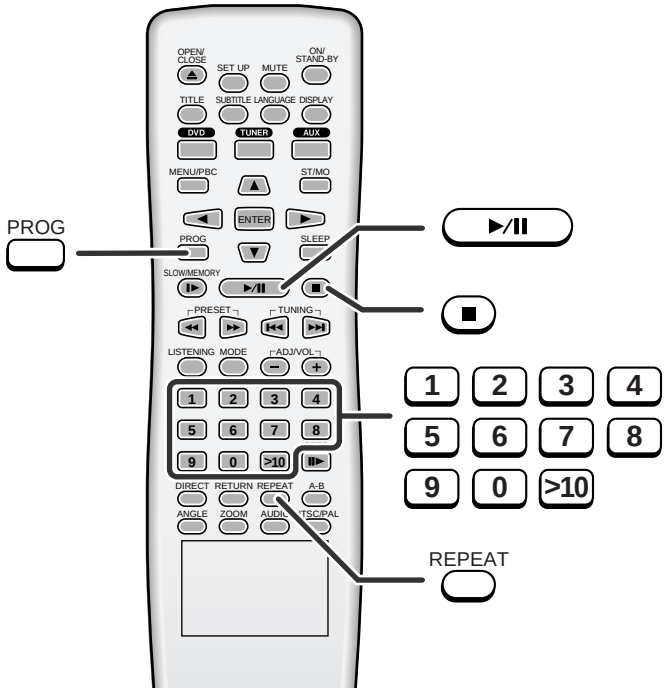
- Enter minutes and seconds.
- To specify 1 hour 23 minutes and 40 seconds, enter "8340".
- If you enter the wrong number, start over from step 1.

Notes:
- Time search feature is disabled on some discs.
- Time search feature is not available on MP3 and JPEG discs.

CD operation

The following playback functions are the same as DVD or VCD operations.

Page
Playback 23
To locate the beginning of a chapter (track) (skip) 25
Fast forward/Fast reverse (search) 25
To play repeatedly (repeat play) 29
To play the contents between the specified points repeatedly (A-B repeat) . . 30
To change the audio channel 32
To change the display on TV screen 32
To start playback from the desired point (direct play) 34



■ To play in the desired order (programmed play) CD SVCD VCD

You can play back the desired tracks in a specific order.
Maximum of 99 tracks can be programmed.
When playing SVCD or VCD, cancel the P.B.C. (playback control) (see page 34).

1 Whilst stopped, press the PROG button.

TV screen	Unit display
PROGRAM P00:00	PROG P00:00

2 Enter a track number with the direct number buttons.

PROGRAM P01:02	P01:02

- Repeat the procedure above to enter other track numbers.
- If you enter the wrong number, press the PROG button and then start over from step 1.
- If the track number is 2 digits or more, press ">10" and enter the number.

  Example:

  To select track 14: Press ">10" and "4".

3 Press the ▶/II button to start play.

To change the programmed contents:
Repeat the above procedures from step 1.

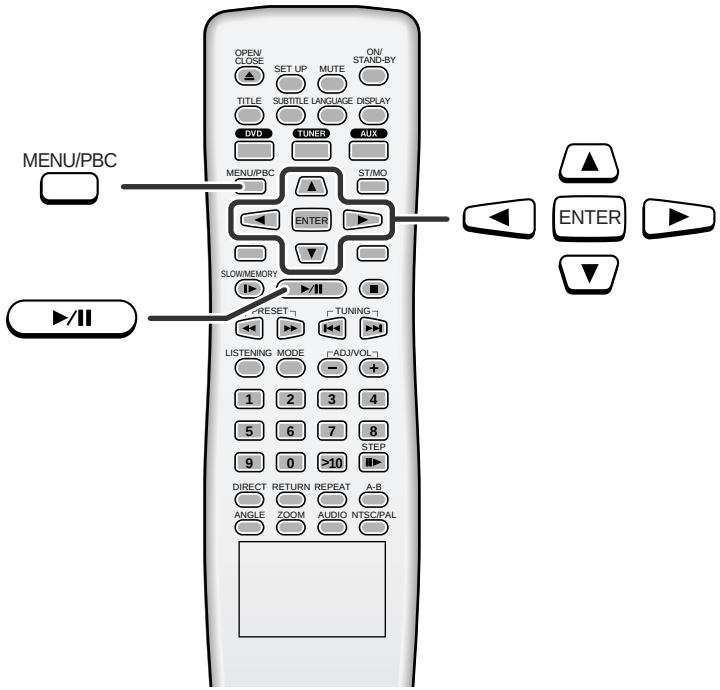
Programmed contents will be cleared when you perform the following operations:
- Press the ■ or PROG button in the stop mode.
- Switch the input or remove the discs.
- Set to the stand-by mode.

Notes:
- Programming is not possible whilst paused or during playback.
- Sequential programming does not work if the disc disables programming or does not have track information.
- During programmed play, repeat play can be performed by pressing the REPEAT button (see page 29).

MP3 and JPEG disc operation

The following playback functions are the same as DVD or VCD operations.

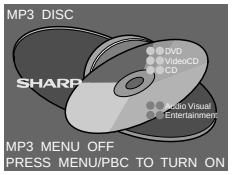
Page
Playback 23
To locate the beginning of a chapter (track) (skip) 25
Fast forward/Fast reverse (search) 25
To play repeatedly (repeat play) 29
To change the display on TV screen 32
To start playback from the desired point (direct play) 34



■ Playback on the MP3 menu screen MP3 JPEG

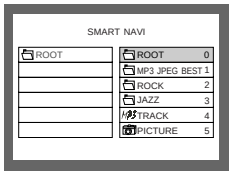
You can play CD-R/RW recorded in the MP3 and JPEG formats.

1 Load a disc containing MP3 and JPEG files.



2 Press the MENU/PBC button.

The MP3 menu screen appears.



··· Indicates folders.

··· Indicates MP3 data.

··· Indicates JPEG data.

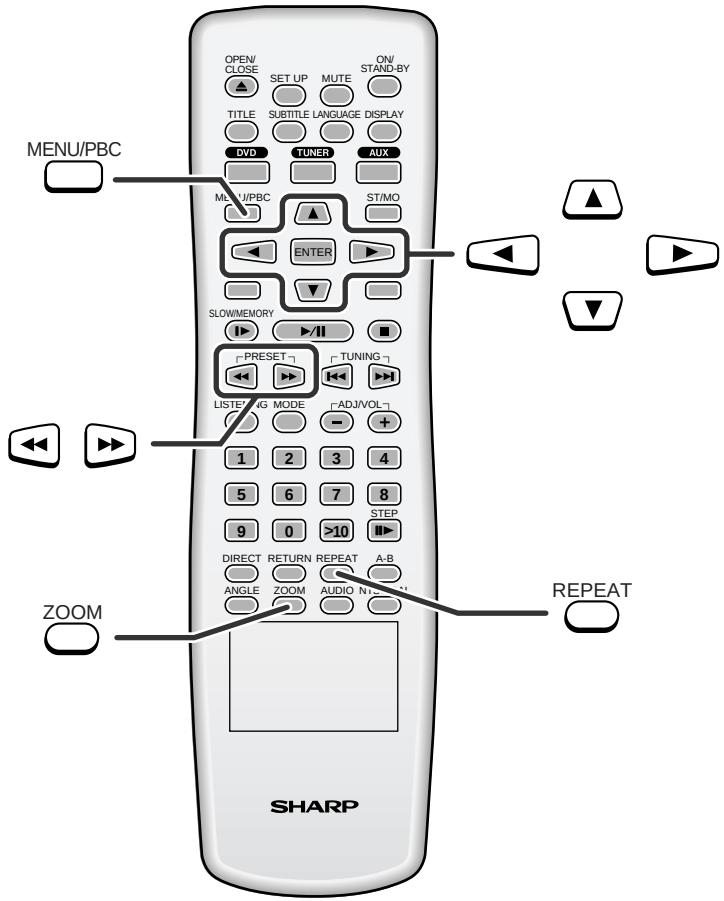
3 Press the ▲, ▼, ◄ or ► button to select a folder or a track and press the ENTER or ►/II button.

- Playback starts when you select a track.
- When the format is JPEG, the next file is automatically displayed after a while.
- Using the direct number buttons, you can open files or folders directly. Enter the number on the right of the display.

Caution:
If you convert MP3 data to "audio CD" data to record on a CD-R/RW, play it as an audio CD. The MP3 operation cannot be performed.

Note:
Up to 11 characters can be displayed for a folder name and a track name. Underlines, asterisks, and spaces may not be displayed.

MP3 and JPEG disc operation (continued)

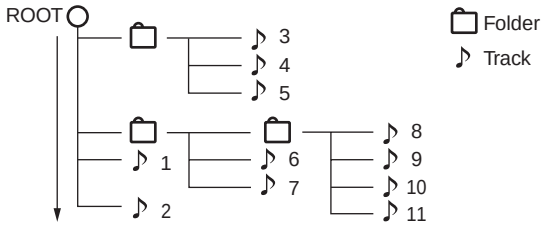


To set the MP3 menu screen to off:

Press the MENU/PBC button.

When the MP3 menu screen is off, tracks are played in the following order.

Playback is performed in the order of 1 to 11 in the following example.



Tracks on some discs cannot be played in order.

Repeat play on the MP3 menu screen:

Whilst a disc is playing, press the REPEAT button.

Each time the button is pressed, the repeat play mode changes in the following order.

TV screen	Unit display	
"REP-ONE"	**"REPEAT 1"**	Repeat the currently playing track.
"FOLDER REP"	**"REPEAT"**	Repeat the currently playing folder (directory).
"FOLDER"	No display	Repeat play is cancelled.

If the MP3 menu screen is off, the play mode is set to the one in use (see page 29).

■ Zoom function JPEG

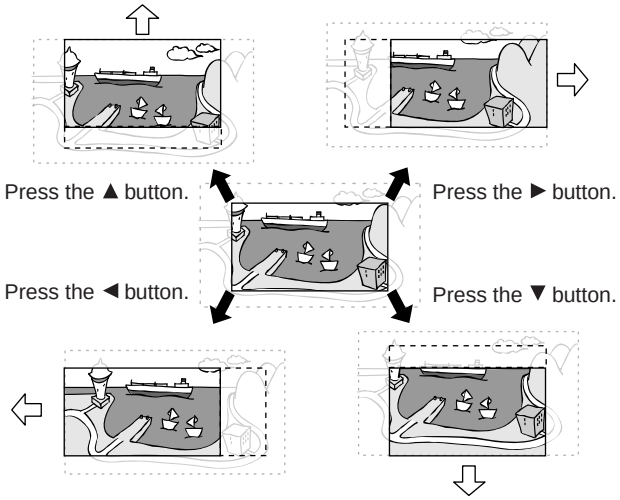
1 During playback, press the ZOOM button.

2 Press the ◄◄ or ►► button.

Each press of the ◄◄ or ►► button cycles through the zoom setting as follows.

ZOOM 025 PCT↔ZOOM 050 PCT↔ZOOM 100 PCT↔ZOOM 150 PCT↔ZOOM 200 PCT

3 To shift the view and display the desired part of a zoomed image, press the ▲, ▼, ◄ or ► button repeatedly.



To return to normal view:
Press the ZOOM button again, "ZOOM OFF" will show on the screen.

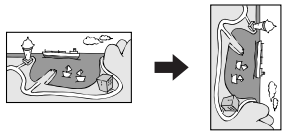
■ Rotating a picture JPEG

You can rotate images.

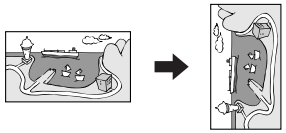
During playback, press the ▲, ▼, ◄ or ► button.

The image rotates as shown below.

► button : 90° rotation in a clockwise direction.



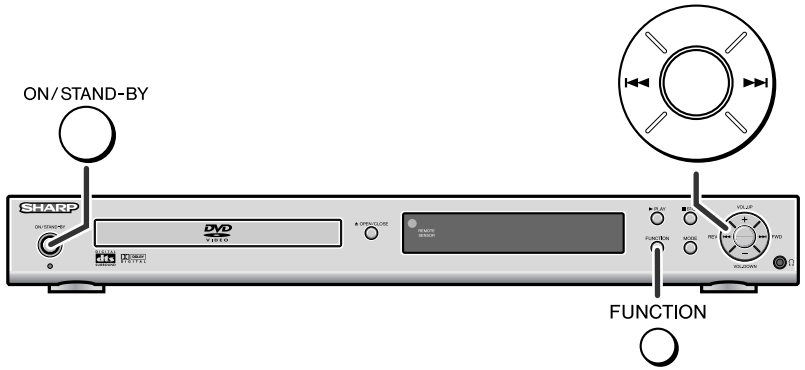
◄ button : 90° rotation in an anti-clockwise direction.

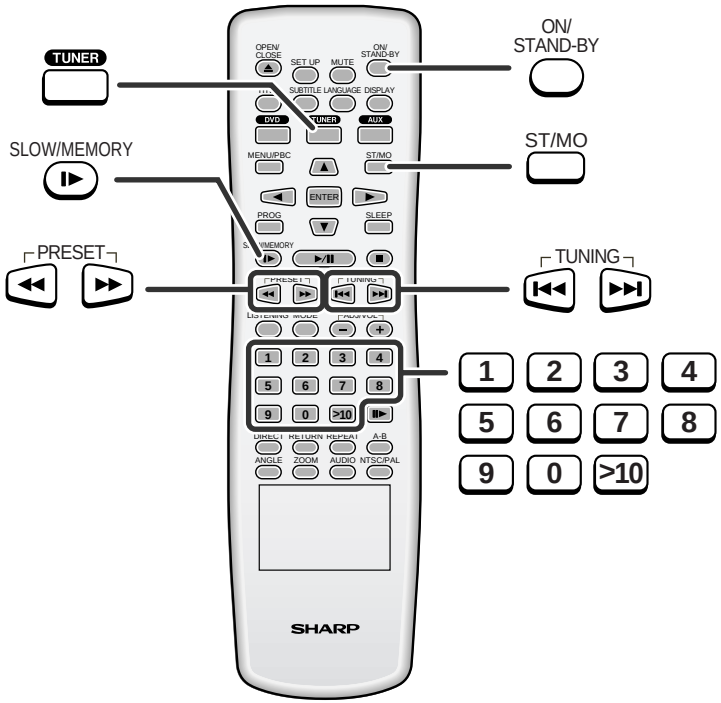


▲ button : Vertical mirror image.

▼ button : Horizontal mirror image.

Listening to the radio



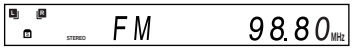


■ Manual or Auto tuning

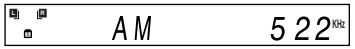
1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the FUNCTION (TUNER) button repeatedly to select the desired frequency band.**

FM



AM



3 **Press the ⏮ or ⏭ (TUNING ⏮ or ⏭) button to tune in to the desired station.**

Manual tuning:

Press the ⏮ or ⏭ (TUNING ⏮ or ⏭) button as many times as required to tune in to the desired station.

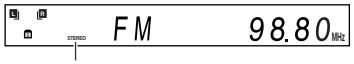
Auto tuning:

When the ⏮ or ⏭ (TUNING ⏮ or ⏭) button is pressed for 0.5 seconds or more, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop the auto tuning, press the ⏮ or ⏭ (TUNING ⏮ or ⏭) button again.

When an FM stereo broadcast is received...

- "STEREO" will appear.
- If the FM reception is weak, press the ST/MO button to extinguish the "STEREO" indicator. The reception changes to monaural, and the sound becomes clearer.



FM stereo receiving indicator

Note:
The sound is produced in 2-channel stereo whilst receiving radio broadcasts.

After use:
Press the ON/STAND-BY button to enter the power stand-by mode.

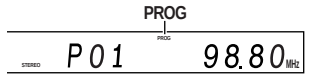
■ Memorising a station

You can store 40 AM and FM stations in memory and recall them at the push of a button. (Preset tuning)

1 **Perform steps 1 - 3 in "Manual or Auto tuning" on page 39.**

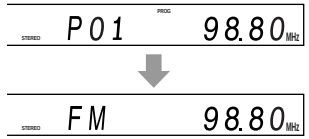
2 **Press the SLOW/MEMORY I► button to enter the preset tuning saving mode.**

3 **Press the PRESET (◄◄ or ►►) button to select the preset channel number.**



Store the stations in memory, in order, starting with preset channel 1.

4 **Press the SLOW/MEMORY I► button to save the station to memory.**



5 **Repeat steps 1 - 4 to set other stations, or to change a preset station.**

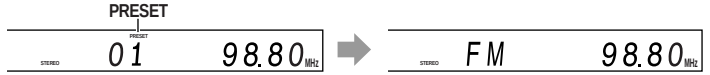
When a new station is stored in memory, the station previously memorised will be erased.

Note:
The backup function protects the memorised stations for a few hours should there be a power failure or the AC power lead disconnection.

■ To recall a memorised station

1 **Press the TUNER button.**

2 **Press the PRESET (◄◄ or ►►) button to select the desired station.**



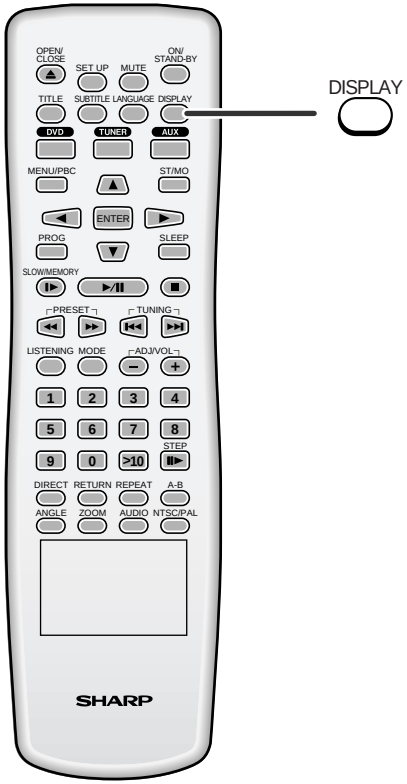
Preset channel — Frequency and frequency band

You can use the direct number buttons.

Using the Radio Data System (RDS)

RDS is a broadcasting service which a growing number of FM stations provide. These FM stations send additional signals along with their regular programme signals. They send their station names, and information about the type of programme such as sports or music, etc.

You can control the RDS by using the remote control only.



■ Information provided by RDS

Each time the DISPLAY button is pressed, the display will switch as follows:

Station name (PS) → Programme type (PTY)
↑ Frequency ←

If the tuned station is not transmitting an RDS signal or not an RDS station, "NO RDS" will be displayed.

NO RDS

■ Notes for RDS operation

If any of the following events occur, it does not mean that the unit is faulty:

- If a particular station is not broadcasting properly or a station is conducting tests, the RDS reception function may not work properly.
- When you receive an RDS station whose signal is too weak, information like the station name may not be displayed.

Descriptions of the PTY (Programme Type) codes.
You can search for and receive the following PTY.

NEWS	Short accounts of facts, events and publicly expressed views, reportage and actuality.
AFFAIRS	Topical programme expanding or enlarging upon the news, generally in different presentation style or concept, including debate, or analysis.
INFO	Programmes whose purpose is to impart advice in the widest sense.
SPORT	Programme concerned with any aspect of sport.
EDUCATE	Programme intended primarily to educate, of which the formal element is fundamental.
DRAMA	All radio plays and serials.
CULTURE	Programmes concerned with any aspect of national or regional culture, including language, theatre, etc.
SCIENCE	Programmes about the natural sciences and technology.
VARIED	Used for mainly speech-based programmes usually of light-entertainment nature, not covered by other categories. Examples include: quizzes, panel games, personality interviews.
POP M	Commercial music, which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts.
ROCK M	Contemporary modern music, usually written and performed by young musicians.
MOR M	Current contemporary music considered to be "easy-listening", as opposed to Pop, Rock or Classical, or one of the specialised music styles, Jazz, Folk or Country. Music in this category is often but not always, vocal, and usually of short duration.
LIGHT M	Classical music for general, rather than specialist appreciation. Examples of music in this category are instrumental music, and vocal or choral works.
CLASSICS	Performances of major orchestral works, symphonies, chamber music, etc., and including Grand Opera.
OTHER M	Musical styles not fitting into any of the other categories. Particularly used for specialist music of which Rhythm & Blues and Reggae are examples.
WEATHER	Weather reports and forecasts and meteorological information.
FINANCE	Stock Market reports, commerce, trading, etc.
CHILDREN	For programmes targeted at a young audience, primarily for entertainment and interest, rather than where the objective is to educate.
SOCIAL	Programmes about people and things that influence them individually or in groups. Includes: sociology, history, geography, psychology and society.
RELIGION	Any aspect of beliefs and faiths, involving a God or Gods, the nature of existence and ethics.
PHONE IN	Involving members of the public expressing their views either by phone or at a public forum.
TRAVEL	Features and programmes concerned with travel to near and far destinations, package tours and travel ideas and opportunities. Not for use for announcements about problems, delays, or roadworks affecting immediate travel where TP/TA should be used.
LEISURE	Programmes concerned with recreational activities in which the listener might participate. Examples include, Gardening, Fishing, Antique collecting, Cooking, Food & Wine, etc.
JAZZ	Polyphonic, syncopated music characterised by improvisation.
COUNTRY	Songs which originate from, or continue the musical tradition of the American Southern States. Characterised by a straightforward melody and narrative story line.
NATION M	Current Popular Music of the Nation or Region in that country's language, as opposed to International 'Pop' which is usually US or UK inspired and in English.
OLDIES	Music from the so-called "golden age" of popular music.
FOLK M	Music which has its roots in the musical culture of a particular nation, usually played on acoustic instruments. The narrative or story may be based on historical events or people.
DOCUMENT	Programme concerned with factual matters, presented in an investigative style.
ALM TEST	Broadcast when testing emergency broadcast equipment or receivers.
ALARM	Emergency announcement made under exceptional circumstances to give warning of events causing danger of a general nature.
NONE	No programme type (receive only).

Enjoying various sounds

DTS (Digital Theater Systems)

Digital input from discs with this trademark

One of the digital audio systems for theatrical use. As the sound quality is emphasised, you can enjoy the realistic sound effect in the home theatre system.

The DTS indicator will light up when the disc recorded in DTS is played back.

Dolby Digital

Digital input from discs with this trademark

One of the digital audio systems for theatrical use. You can enjoy the stereophonic effect in the home theatre system.

The ◻◻ DIGITAL indicator will light up when the disc recorded in ◻◻ DIGITAL is played back.

Dolby Pro Logic

Inputs from stereo-recorded discs, video tapes, etc.

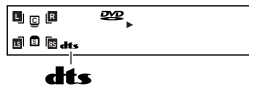
You can produce 2-channel stereo signals on audio CD, video CD, or AUX1/AUX2 from all the speakers.

The ◻◻ Pro Logic indicator will light up when the Dolby Pro Logic surround is activated.

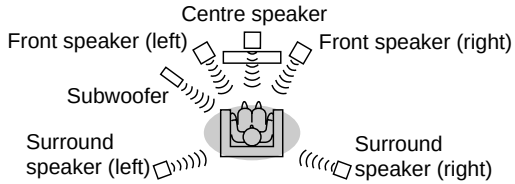
■ DTS or Dolby Digital Surround

Enjoy DTS or Dolby Digital sound in 5.1 or 2-channel.

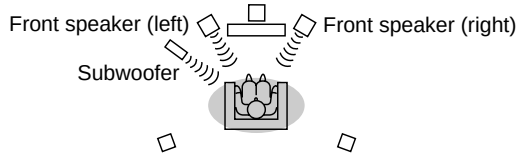
Whilst a disc is playing, press the LISTENING button repeatedly to select the desired listening mode.

	Unit display	TV screen
5.1ch surround sound: Example:DTS		DTS
2-ch stereo sound:		STEREO

5.1ch surround sound:
Enjoy 5.1-channel surround sound.



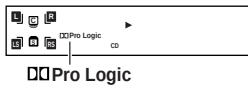
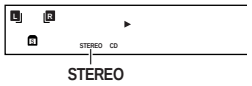
2-ch stereo sound:
Enjoy 2-channel stereo sound.



■ Dolby Pro Logic Surround

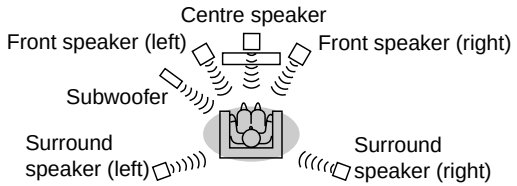
You can produce 2-channel stereo signals on audio CD, video CD, or AUX1/AUX2 from all the speakers, or switch to 2-channel.

Whilst a disc is playing, press the LISTENING button repeatedly to select the desired listening mode.

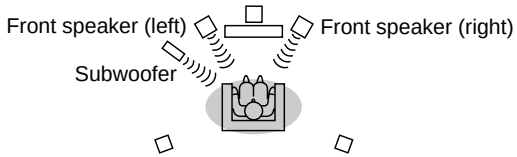
Dolby Pro Logic surround:	**Unit display**	**TV screen**
		PRO LOGIC
2-ch stereo sound:		STEREO

When using AUX1 or AUX2, the information does not appear on the TV screen.

Dolby Pro Logic surround:
You can produce sound from all the speakers.

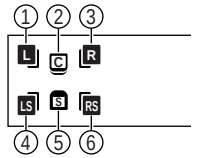


2-ch stereo sound:
Enjoy 2-channel stereo sound.

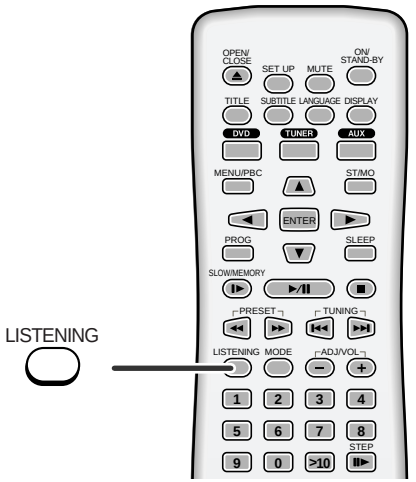


Speaker indicators:
Speaker indicators show speakers in use.

① Left Front Speaker Indicator
② Centre Speaker Indicator
③ Right Front Speaker Indicator
④ Left Surround Speaker Indicator
⑤ Subwoofer Indicator
⑥ Right Surround Speaker Indicator



Notes:
- You can switch the audio whilst playing the disc of multiple types (Dolby Digital, DTS, etc.) (page 31).
- When the listening mode is set to stereo, the same monaural sound is reproduced in both the right and left channels.
- **The surround function is disabled in the tuner mode (FM or AM).**

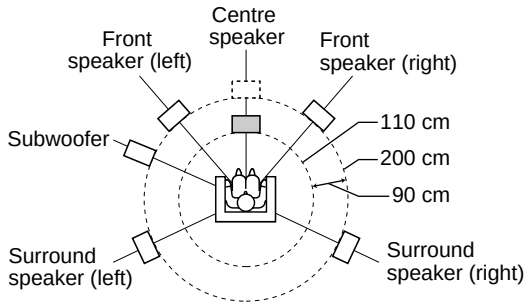


Adjusting speaker delay time/speaker level

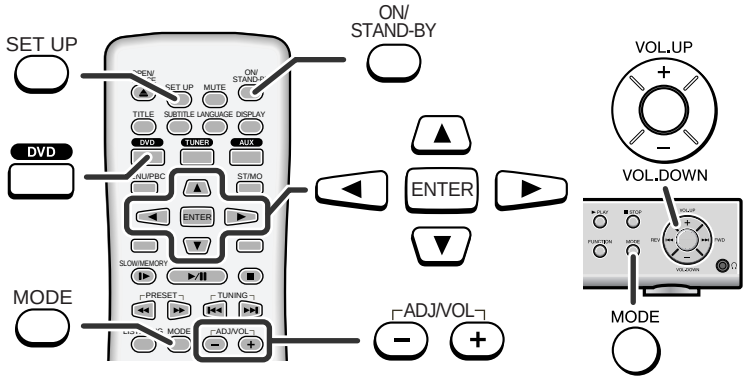
When speakers cannot be placed at equal distances, change speaker settings to enjoy surround effects as if they were equally placed.

Example:
If the centre speaker is closer to the listening position than others by about 90 cm, set as follows.

Sound from the centre speaker needs to be delayed for 90 cm. The delay time of 1 ms corresponds to 30 cm. Set the delay time to 3 MS. Sound is heard as if all the speakers were equally placed.



1 In "Speaker delay time setting", set the centre speaker to 3 MS.
2 The centre speaker is closer to the listener than others. In "Speaker level setting", adjust the centre speaker level (see page 46).
3 In "Test tone", check the sound from each speaker (see page 46).



■ Speaker delay time setting

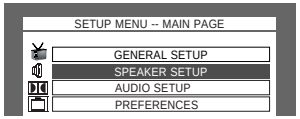
By adjusting speaker delay time, differences in the speaker distance can be corrected. This offers you the sound quality as if the speakers are installed at the same distance from the listening position.

1 Press the ON/STAND-BY button to turn the power on.

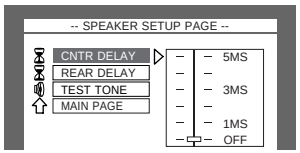
2 Press the DVD button.

3 Press the SET UP button.

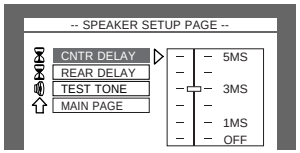
4 Press the ▲ or ▼ button to select "SPEAKER SETUP" and then press the ENTER button.



5 Press the ▲ or ▼ button to select "CNTR DELAY" or "REAR DELAY".



6 Press the ► button and use the ▲ or ▼ button to select the desired delay time.



7 To complete the speaker delay time setting, press the SET UP button.

Speaker type		Delay time range	Default setting
CNTR DELAY	Centre speaker	1 MS to 5 MS	OFF
REAR DELAY	Surround speaker (L, R)	3 MS to 15 MS	OFF

Notes:
- When the listening mode is "STEREO", the delay time cannot be changed.
- You cannot change the delay time of the front speakers and the subwoofer.
- In the "REAR DELAY" setting, the left and right speakers are adjusted at the same time, not individually.

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■ Test tone

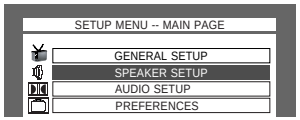
You can check the sound output from the speakers.

1 **Press the ON/STAND-BY button to turn the power on.**

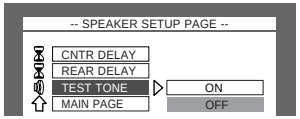
2 **Press the DVD button.**

3 **Press the SET UP button.**

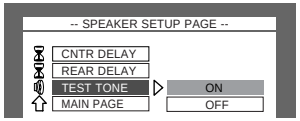
4 **Press the ▲ or ▼ button to select "SPEAKER SETUP" and then press the ENTER button.**



5 **Press the ▲ or ▼ button to select "TEST TONE".**



6 **Press the ► button and use the ▲ or ▼ button to select "ON".**



7 **Press the ENTER button.**

Speakers emit the test tone for 2 seconds in turn, starting with the front speaker (left).

Front speaker (left) → Centre speaker → Front speaker (right)
↓
Subwoofer ← Surround speaker (left) ← Surround speaker (right)

8 **To end the test tone, press the SET UP button.**

Note:
When the listening mode is "STEREO", you can check the speaker sound of the front speakers and the subwoofer.

■ Speaker level setting

If sounds from the speakers are uneven, you can equalise them by adjusting the speaker levels.

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the DVD button.**

3 **Press the MODE button repeatedly to select the desired speaker.**

4 **Within 3 seconds, press the ADJ/ VOL + (VOL.UP +) or ADJ/VOL – (VOL.DOWN –) button to adjust the level.**

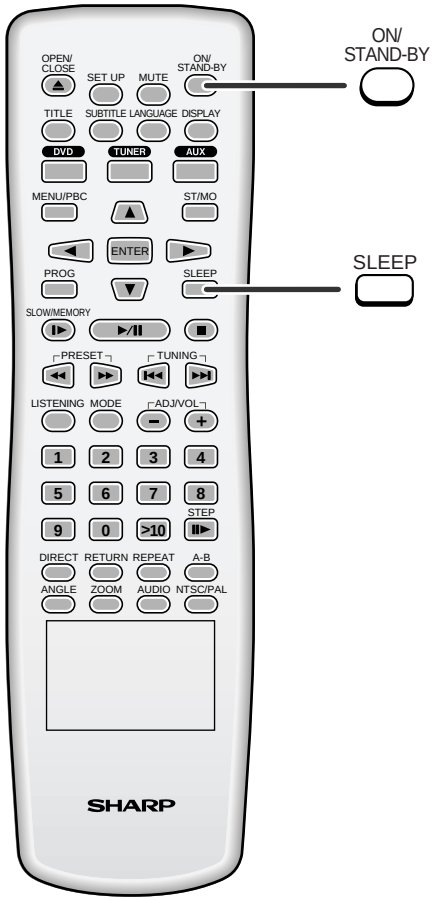
CENTER –3DB

- You can adjust the level at 1 dB intervals.
- To adjust the levels of other speakers, repeat the operation from step 3.

Speaker type		Level range	Default setting
FRONT LEFT	Front speaker (Left)	- 15 DB to + 10 DB	0 DB
CENTER	Centre speaker	- 15 DB to + 10 DB	0 DB
FRONT RIGHT	Front speaker (Right)	- 15 DB to + 10 DB	0 DB
REAR RIGHT	Surround speaker (Right)	- 15 DB to + 10 DB	0 DB
REAR LEFT	Surround speaker (Left)	- 15 DB to + 10 DB	0 DB
SUBWOOFER	Subwoofer	- 15 DB to + 10 DB	0 DB

Notes:
- The speaker type appears followed by "TREBLE", "BASS" and "MASTER VOLUME".
- For details on "TREBLE" and "BASS", see page 22.
- The volume can still be adjusted even after "MASTER VOLUME" disappears.
- When the listening mode is "STEREO", you can change the level of the front speakers and the subwoofer.
- If subwoofer sound is distorted, lower the subwoofer level.

Sleep operation

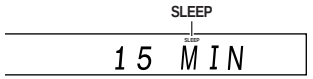


■ Setting the sleep timer

You can set the unit to the power stand-by mode at the specified time.

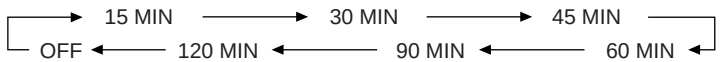
1 Play back the desired sound source.

2 Press the SLEEP button.



To change the sleep time:

Press the SLEEP button repeatedly to select the desired sleep time. The time will decrease as follows.



3 Your system will enter the power stand-by mode automatically after the preset time has elapsed.

To cancel the sleep operation:
Press the ON/STAND-BY button whilst "SLEEP" is indicated.
To cancel the sleep operation without setting the system to the stand-by mode, press the SLEEP button until "OFF" appears on the display.

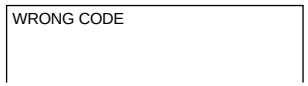
To confirm the remaining sleep time:
Press the SLEEP button whilst the sleep timer is set.
The remaining sleep time is displayed for about 3 seconds.

Caution:
This unit cannot set the sleep timer of other equipment.
To use the sleep timer using other equipment, you should also set the timer on the equipment separately.

Error indicators and warnings

When you load an unplayable disc or fail to perform operations properly, the following messages are displayed on the unit and the TV screen.

Unit display	Meaning
NO DISC	● The disc is not loaded. ● The disc is scratched or dirty and cannot be recognised. ● The disc is loaded up-side down.
WRONG CODE	● The region number of the DVD is not 2 or ALL.

TV screen	Meaning
	● The disc is not loaded. ● The disc is scratched or dirty and cannot be recognised. ● The disc is loaded up-side down.
	● The region number of the DVD is not 2 or ALL.

Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.
If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

■ General

Symptom	Possible cause	Reference page
No sound is heard.	● Is the volume level set to "0"?	P. 22
	● Are the headphones connected?	P. 22
	● Are the speaker wires disconnected?	P. 11
The sounds from speakers are not well balanced.	● Are the speaker leads connected to the wrong channels?	P. 11
	● Is each speaker placed at the same distance from the listener?	P. 15
	● Are speakers adjusted to the same level?	P. 46
Noise is heard during playback.	● Move the unit away from any computers or mobile phones.	–
When a button is pressed, the unit does not respond.	● Set this unit to the power stand-by mode and then turn it back on.	P. 50
Interference or noise occurs on the TV image.	● Is the unit placed near TV with internal aerial? Use an external aerial.	P. 12
The power is not turned on.	● Is the unit unplugged?	P. 14
	● The protection circuit may be activated. Unplug and plug in the power lead again after 15 minutes or more.	P. 50
No images are displayed.	● Is TV turned on?	P. 17
	● Is the input of TV switched?	P. 17

■ DVD player

Symptom	Possible cause	Reference page
Even though a disc has been loaded, "NO DISC" is displayed.	● Is the disc loaded upside down?	–
	● Is the disc very dirty?	–
Playback sounds are skipped.	● Does the disc satisfy the standards?	–
	● Is the unit located near excessive vibrations?	–
	● Has condensation formed inside the unit?	P. 50
The control buttons do not function. Music or video playback is interrupted.	● Is the disc very dirty?	–
	● Does the disc satisfy the standards?	–
	● Is the unit located near excessive vibrations?	–
	● Has condensation formed inside the unit?	P. 50
Pictures and sound are skipped.	● Is the disc very dirty?	–
	● Is the unit located near excessive vibrations?	–
	● Has condensation formed inside the unit?	P. 50
The unit does not operate even if the power is on.	● Is a disc other than a DVD (region number 2 or ALL), SVCD, VCD, audio CD, CD-R or CD-RW loaded?	P. 5
Image cannot be played back. (Sound is not heard.)	● Are the video and audio cables connected improperly?	P. 13 - 14
	● Is a disc other than a DVD (region number 2 or ALL), SVCD, VCD, audio CD, CD-R or CD-RW loaded?	P. 5
	● Is the disc very dirty?	–
	● Is the disc loaded upside down?	–
	● Clean the optical pickup if it is dirty.	–
	● Is the TV input set to "VIDEO 1/VIDEO 2", etc.?	P. 23
	● Is the unit turned on?	P. 16

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■ Tuner

Symptom	Possible cause	Reference page
The radio makes unusual noises continuously.	● Is the unit placed near the TV or computer?	–
	● Is the FM aerial or AM loop aerial placed properly? Move the aerial away from the AC power lead or the unit if located near.	P. 12
The preset channel cannot be recalled.	● Did you remove the plug from the wall socket, or did a power failure occur? Set the channel again.	P. 40

■ Remote control

Symptom	Possible cause	Reference page
The remote control does not operate properly.	● Is the battery polarity respected?	P. 16
	● Are the batteries dead?	–
	● Is the distance or angle incorrect?	P. 16
	● Are there any obstructions in front of the unit?	–
	● Is the remote control sensor exposed to strong light (inverter fluorescent light, direct sunlight, etc.)?	P. 16
	● Is the remote control for another equipment used simultaneously?	–
The unit cannot be turned on with the remote control.	● Is the AC power lead of the unit plugged in?	P. 14
	● Are the batteries inserted?	P. 16

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:

1 Set the unit to the stand-by mode and turn the power on again.
2 If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

When the protection circuit is activated:

When short-circuiting the speaker leads or turning the volume too high, the protection circuit may be activated and the system may enter the stand-by mode.
Unplug the unit and, after 15 minutes or more, plug it in again.
Turn down the volume if set too high.

■ Before transporting the unit

1 Press the ON/STAND-BY button to turn the power on.
2 Press the ⏏ OPEN/CLOSE button to open the disc tray.
Remove the disc inserted in the unit.
3 Press the ⏏ OPEN/CLOSE button to close the disc tray.
4 Press the ON/STAND-BY button to enter the stand-by mode, and then unplug the AC power lead from the wall socket.

■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (laser pickup, etc.) or on the transmitter on the remote control.
Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.

Maintenance

■ Cleaning the cabinet

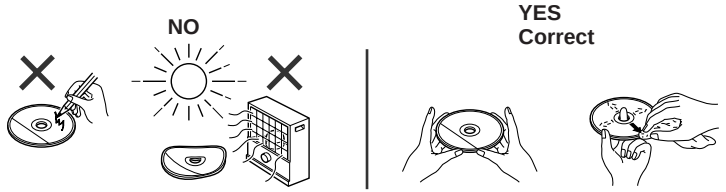
Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of the unit. It may cause malfunctions.

■ Care of DVD/CD discs

DVD/CD discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your DVD/CD collection and player.

- Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the DVD/CDs by the edges. Fingerprints, dirt, or water on the DVD/CDs can cause noise or mistracking. If a DVD/CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.



Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

- **General**

Power source	AC 230 V, 50 Hz
Power consumption	HT-CN400DVH: Power on: 88 W Power stand-by: 0.6 W
	HT-CN500DVH: Power on: 105 W Power stand-by: 0.6 W
Dimensions	Width: 430 mm (16-7/8") Height: 53 mm (2-1/8") Depth: 337 mm (13-1/4")
Weight	4.2 kg (9.3 lbs.)
Audio input terminals	Analogue input (IN 1): RCA type × 1 pair (L/R)
	Analogue input (IN 2): RCA type × 1 pair (L/R)
Audio output terminals	Analogue output (OUT): RCA type × 1 pair (L/R)
	Headphones: 16 - 50 ohms (recommended: 32 ohms)
Video output terminals	SCART output: SCART terminal × 1
	S-video output: S-terminal × 1
	Video output: RCA type × 1

- **Amplifier (HT-CN400DVH)**

Output power	Front speakers: RMS: 60 W (30 W + 30 W) (10 % T.H.D., 1 kHz) Centre speaker: RMS: 30 W (10 % T.H.D., 1 kHz) Surround speakers: RMS: 60 W (30 W + 30 W) (10 % T.H.D., 1 kHz) Subwoofer: RMS: 50 W (10 % T.H.D., 100 Hz)

● **Amplifier (HT-CN500DVH)**

Output power	Front speakers: RMS: 100 W (50 W + 50 W) (10 % T.H.D., 1 kHz) Centre speaker: RMS: 50 W (10 % T.H.D., 1 kHz) Surround speakers: RMS: 100 W (50 W + 50 W) (10 % T.H.D., 1 kHz) Subwoofer: RMS: 50 W (10 % T.H.D., 100 Hz)

● **DVD player**

Signal system	PAL/NTSC colour	
Supported disc types	DVD (Region number 2, ALL), SVCD, VCD, audio CD, CD-R, CD-RW, MP3	
Video signal	Horizontal resolution: 500 lines S/N ratio: 70 dB	
Audio signal	**Frequency characteristics**	Linear PCM DVD: 4 Hz to 22 kHz (sampling rate: 48 kHz) 4 Hz to 44 kHz (sampling rate: 96 kHz) CD: 4 Hz to 20 kHz
	S/N ratio	CD: 96 dB (1 kHz)
	Dynamic range	Linear PCM DVD: 95 dB CD: 94 dB
	Total harmonic distortion ratio	0.006 % maximum

● **Tuner**

Frequency range	FM: 87.5 -108 MHz AM: 522 - 1,620 kHz

● **Front/Centre speakers**

Type	Full range speaker system (magnetic shield) 8 cm (3-1/8") speaker
Maximum input power	HT-CN400DVH: 45 W
	HT-CN500DVH: 60 W
Impedance	HT-CN400DVH: 8 ohms
	HT-CN500DVH: 6 ohms
Dimensions	Width: 94 mm (3-3/4") Height: 169 mm (6-5/8") Depth: 97 mm (3-7/8")
Weight	0.6 kg (1.3 lbs.)/each

● **Surround speaker**

Type	Full range speaker system 8 cm (3-1/8") speaker
Maximum input power	HT-CN400DVH: 45 W
	HT-CN500DVH: 60 W
Impedance	HT-CN400DVH: 8 ohms
	HT-CN500DVH: 6 ohms
Dimensions	Width: 94 mm (3-3/4") Height: 169 mm (6-5/8") Depth: 97 mm (3-7/8")
Weight	0.6 kg (1.3 lbs.)/each

● **Subwoofer**

Type	Sub-woofer system 12 cm (4-3/4") subwoofer
Maximum input power	75 W
Impedance	6 ohms
Dimensions	Width: 135 mm (5-5/16") Height: 338 mm (13-5/16") Depth: 375 mm (14-3/4")
Weight	5.3 kg (11.7 lbs.)

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UP

DOWN

HT-CN400DVH/HT-CN500DVH HOME CINEMA WITH DVD

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